

STIC Search Biotech-Chem Library

STIC Database Tracking Number, 139486

Sarvamangala Devi

Location: REM 3C18

Art Unit: 1645

Monday, December 06, 2004

Case Serial Number: 10/081170

Beverly Shears From:

Location: Remsen Bldg. **RM 1A54**

571-272-2528 Phone:

beverly.shears@uspto.gov

Search Notes

Shears, Beverly

Devi, Sarvamangala

From: Friday, November 19, 2004 7:31 AM Sent:

Shears, Beverly To: 10/081,170 Subject:

Beverly:

Please perform a text search for the following claims in application 10/081,170:

- 1. An isolated mutant cell comprising decreased levels of sialic acid-containing host cell receptors for influenza virus relative to a corresponding wild-type cell which wildtype cell supports efficient influenza virus replication, wherein the mutant cell is selected for resistance to growth inhibition by a lectin which binds terminal sialic acid residues in sialic acid-containing molecules.
- 2. The isolated mutant cell of claim 1 which is a mnmmalian cell.
- The isolated mutant cell of claim 2 which is a swine, bovine, simian or canine 3. cell.
- 4. The isolated mutant cell of claim 1 wherein the wild-type cell is a Madin-Darby canine kidney (MDCK) cell.
- 5. The isolated mutant cell of claim 2 which is a mink cell.
- The isolated mutant cell of claim 5 which is a mink lung cell.
- 7. The isolated mutant cell of claim 1 which is an avian cell.
- The isolated mutant cell of claim 1 which has decreased levels of N-acetylneuraminic acid (NANA or NeuNAc).
- 9. The isolated mutant cell of claim 1 which has decreased levels of N-glycolylneuraminic acid.

Thanx.

S. DEVI, Ph.D.

Date completed:	Search Site	Vendors
Searcher: Bevering e 2528	STIC	IG
Terminal time:	CM-1	STN
Elapsed time:	Pre-S	Dialog
CPU time:	Type of Search	APS
Total time:	N.A. Sequence	Geninfo
Number of Searches:	A.A. Sequence	SDC
Number of Databases:	Structure	DARC/Questel
·	Bibliographic	Other
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PTO-1590 (9-90)

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FILE 'REGISTRY' ENTERED AT 10:35:54 ON 06 DEC 2004
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                E "N-ACETYLNEURAMINIC ACID"/CN 5
L1
                E "N-GLYCOLYLNEURAMINIC ACID"/CN 5
              1 S E3
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              2 S L1 OR L2
                E LECTIN/CN 5
            609 S LECTIN ?/CN
L4
     FILE 'CAPLUS' ENTERED AT 10:38:01 ON 06 DEC 2004
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L1
              1 SEA FILE=REGISTRY ABB=ON PLU=ON "N-GLYCOLYLNEURAMINIC
L2
                ACID"/CN
              2 SEA FILE=REGISTRY ABB=ON PLU=ON L1 OR L2
L3
            609 SEA FILE=REGISTRY ABB=ON PLU=ON LECTIN ?/CN
L4
          24217 SEA FILE=CAPLUS ABB=ON PLU=ON L3 OR SIALIC OR ACETYLNEURAMINI
L5
                C OR ACETYLSIALIC OR GLYCOLYLNEURAMINIC OR GLYCOLOYLNEURAMINIC
                OR (AC OR ACETYL OR GLYCOLOYL OR GLYCOLYL) (1W) NEURAMINIC OR
                NEUNAC OR NEU NAC OR NANA OR GCNEU OR GC NEU OR NGNA
            931 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND (INFLUENZA? OR ORTHOMYXO
L6
                 (W) (VIRID? OR VIRUS?) OR ORTHOMYXOVIR? OR MYXOVIR?)
            104 SEA FILE=CAPLUS ABB=ON PLU=ON L6 AND (MUTAT? OR MUTANT OR
L7
                MUTAGEN? OR POLYMORPH? OR POLY MORPH?)
             29 SEA FILE=CAPLUS ABB=ON PLU=ON L7 AND (L4 OR LECTIN)
11 SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND (AVES OR AVIAN OR BIRD
L8
L9
                OR ANIMAL OR MAMMAL? OR MINK OR MDCK OR MADIN DARBY? OR VISON
                OR LUTREOLA OR MACRODON OR WILD TYPE# OR SWINE OR PIG OR HOG
                OR BOVINE OR CATTLE OR COW OR PORCINE OR SIMIAN OR MONKEY OR
                APE OR CHIMP OR CHIMPANZ? OR CANINE OR DOG) (S) CELL
     ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
L9
     Entered STN: 04 May 2004
ACCESSION NUMBER:
                         2004:361935 CAPLUS
DOCUMENT NUMBER:
                         140:417334
                          Changes in in vitro susceptibility of
TITLE:
                          influenza A H3N2 viruses to a neuraminidase
                          inhibitor drug during evolution in the human host
                          Thompson, Catherine I.; Barclay, Wendy S.; Zambon,
AUTHOR(S):
                         Maria C.
                          School of Animal and Microbial Sciences, University of
CORPORATE SOURCE:
                          Reading, Reading, RG6 6AJ, UK
                          Journal of Antimicrobial Chemotherapy (2004), 53(5),
SOURCE:
                          759-765
                          CODEN: JACHDX; ISSN: 0305-7453
PUBLISHER:
                          Oxford University Press
DOCUMENT TYPE:
                          Journal
LANGUAGE:
                          English
     Influenza A H3N2 viruses isolated recently have characteristic
     receptor binding properties that may decrease susceptibility to
     neuraminidase inhibitor drugs. A panel of clin. isolates and recombinant
     viruses generated by reverse genetics were characterized and tested for
     susceptibility to zanamivir. Plaque reduction assays and neuraminidase
enzyme
     inhibition assays were used to assess susceptibility to zanamivir.
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Receptor binding properties of the viruses were characterized by differential agglutination of red blood cells (RBCs) from different species. Sequence anal. of the hemagglutinin (HA) and neuraminidase (NA) genes was carried out. Characterization of a panel of H3N2 clin. isolates from 1968 to 2000 showed a gradual decrease in agglutination of chicken and guinea pig RBCs over time, although all isolates could agglutinate turkey RBCs equally. Sequence anal. of the HA and NA genes identified mutations in conserved residues of the HA1 receptor binding site, in particular Leu-226 → Ile-226/Val-226, and modification of potential glycosylation site motifs. This may be indicative of changes in virus binding to sialic acid (SA) receptors in recent years. Although recent isolates had reduced susceptibility to zanamivir in MDCK cell based plaque reduction assays, no difference was found in an NA enzyme-inhibition assay. Assays with recombinant isogenic viruses showed that the recent HA, but not the NA, conferred reduced susceptibility to zanamivir. This study demonstrates that recent clin. isolates of influenza A H3N2 virus no longer agglutinate chicken RBCs, but despite significant receptor binding changes as a result of changes in HA, there was little variation in sensitivity of the NA to zanamivir.

REFERENCE COUNT:

39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 10 Dec 2002

ACCESSION NUMBER: 2002:937303 CAPLUS

DOCUMENT NUMBER:

138:20443

TITLE:

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. <u>با</u>

Endocrine disruptor screening using DNA chips of

endocrine disruptor-responsive genes

INVENTOR(S):

Kondo, Akihiro; Takeda, Takeshi; Mizutani, Shigetoshi;

Tsujimoto, Yoshimasa; Takashima, Ryokichi; Enoki,

Yuki; Kato, Ikunoshin

PATENT ASSIGNEE(S):

Takara Bio Inc., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 386 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2002355079	A2	20021210	JP 2002-69354		20020313
PRIORITY APPLN. INFO.:			JP 2001-73183	Α	20010314
•			JP 2001-74993	Α	20010315
			JP 2001-102519	Α	20010330

AB A method and kit for detecting endocrine-disrupting chems. using DNA microarrays are claimed. The method comprises preparing a nucleic acid sample containing mRNAs or cDNAs originating in cells, tissues, or organisms which have been brought into contact with a sample containing the endocrine disruptor. The nucleic acid sample is hybridized with DNA microarrays having genes affected by the endocrine disruptor or DNA fragments originating in these genes have been fixed. The results obtained are then compared with the results obtained with the control sample to select the gene affected by the endocrine disruptor. Genes whose expression is altered by tri-Bu tin, 4-octaphenol, 4-nonylphenol, di-N-Bu phthalate,

dichlorohexyl phthalate, octachlorostyrene, benzophenone, diethylhexyl phthalate, diethylstilbestrol (DES), and 17- β estradiol (E2), were found in mice by DNA chip anal.

L9 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 29 Nov 2002

ACCESSION NUMBER: 2002:907161 CAPLUS

DOCUMENT NUMBER: 138:13500

TITLE: Superantigen-glycolipid conjugates loaded onto antigen

presening cells for adoptive immunotherapy of

neoplastic and infectious diseases

INVENTOR(S): Terman, David S.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 167 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

42.

Service in the

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PATENT NO. KIND DATE APPLICATION NO. DATE

US 2002177551 A1 20021128 US 2001-870759 20010530
PRIORITY APPLN. INFO.: US 2000-208128P P 20000531

The present invention comprises compns. and methods for treating a tumor or neoplastic disease in a host, The methods employ conjugates comprising superantigen polypeptides, nucleic acids with other structures that preferentially bind to tumor cells and are capable of inducing apoptosis. Also provided are superantigen-glycolipid conjugates and vesicles that are loaded onto antigen presenting cells to activate both T cells and NKT cells. Cell-based vaccines comprise tumor cells engineered to express a superantigen along with glycolipids products which, when expressed, render the cells capable of eliciting an effective anti-tumor immune response in a mammal into which these cells are introduced. Included among these compns. are tumor cells, hybrid cells of tumor cells and accessory cells, preferably dendritic cells. Also provided are tumoricidal T cells and NKT cells devoid of inhibitory receptors or inhibitory signaling motifs which are hyperresponsive to the the above compns. and lipid-based tumor associated antigens that can be administered for adoptive immunotherapy of cancer and infectious diseases.

L9 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 08 Sep 2002

ACCESSION NUMBER: 2002:676181 CAPLUS

DOCUMENT NUMBER: 137:214224

TITLE: Identification of lectin-resistant

animal cells with reduced
sialic acid for influenza virus

mutant capable of replicating in an altered

host cell

INVENTOR(S):
Kawaoka, Yoshihiro

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, USA

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE:

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English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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APPLICATION NO.
                                                                    DATE
     PATENT NO.
                         KIND
                                DATE
                                            _____
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                                            WO 2002-US5455
     WO 2002068632
                         A2
                                20020906
                                                                    20020222
                         A3
                                20030530.
     WO 2002068632
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
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             GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,
             GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                            US 2002-81170
                                                                    20020222
     US 2002197705
                         A1
                                20021226
                                            EP 2002-724994
                                20031126
                                                                    20020222
     EP 1364006
                          A2
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                             US 2001-271044P
PRIORITY APPLN. INFO.:
                                                                    20010223
                                                                 W 20020222
                                            WO 2002-US5455
     The invention provides an isolated mutant vertebrate cell which
AB
     has altered expression of sialic acid for influenza
     virus, and methods of preparing and using the mutant cell. The
     invention provides cells useful to propagate influenza virus
     mutants having reduced sialidase activity caused by deletion
     mutation in NA gene. To produce cell lines with a decreased level
     of sialic acid expression on the cell surface, two
     lectins were used, SNA and MAA, to treat the cells.
     MDCK cell line, which supports the growth of
     influenza viruses, was used as a parent cell for
     lectin selection. Viruses lacking sialidase activity can grow
     efficiently in cells expressing a reduced level of sialic acid
     because the viral glycoproteins are not sialylated extensively compared
     with those in normal cell lines and are not bound by the HA
     (hemagglutinin), thus preventing viral aggregation.
     131-48-6, N-Acetylneuraminic acid 1113-83-3,
IT
     N-Glycolylneuraminic acid
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (identification of lectin-resistant animal
        cells with reduced sialic acid for influenza
        virus mutant capable of replicating in an altered host
        cell)
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L9 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 30 May 2002

ACCESSION NUMBER: 2002:404543 CAPLUS

DOCUMENT NUMBER: 137:31962

TITLE: Role of phosphatidylserine exposure and sugar chain

desialylation at the surface of influenza

virus-infected cells in efficient phagocytosis by

macrophages

AUTHOR(S): Watanabe, Yuichi; Shiratsuchi, Akiko; Shimizu,

Kazufumi; Takizawa, Takenori; Nakanishi, Yoshinobu

CORPORATE SOURCE: Graduate School of Medical Science, Kanazawa

University, Ishikawa, 920-0934, Japan

SOURCE: Journal of Biological Chemistry (2002), 277(20),

18222-18228

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular

Biology

DOCUMENT TYPE: Journal

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LANGUAGE: English

AB HeLa cells infected with influenza A virus undergo typical caspase-dependent apoptosis and are efficiently phagocytosed by mouse peritoneal macrophages in a manner mediated by the membrane phospholipid phosphatidylserine, which is translocated to the surface of virus-infected cells during apoptosis. However, the extent of phagocytosis is not always parallel with the level of phosphatidylserine externalization. Here we examined the involvement of influenza virus neuraminidase (NA) in efficient phagocytosis of virus-infected cells. HeLa cells infected with an influenza virus strain expressing temperature-sensitive NA underwent apoptosis and produced viral proteins, including the defective NA, at a non-permissive temperature to almost the

same extent as cells infected with the wild-type

virus. The cells were, however, phagocytosed by macrophages with reduced efficiency. In addition, phagocytosis of cells infected with the

wild-type virus was severely inhibited when the cells had been maintained in the presence of the NA inhibitor

zanamivir. On the other hand, the binding of sialic acid-recognizing lectins to the cell surface declined

after infection with the wild-type virus. The

decrease in the extent of lectin binding was greatly attenuated

when cells were infected with the mutant virus or when

wild-type virus-infected cells were maintained

in the presence of zanamivir. These results indicate that sugar chains are desialylated by NA at the surface of virus-infected cells. We

conclude that the presence of both phosphatidylserine and

asialoglyco-moieties on the cell surface is required for efficient

phagocytosis of influenza virus-infected cells by macrophages.

REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 05 Apr 2001

ACCESSION NUMBER: 2001:240511 CAPLUS

DOCUMENT NUMBER: 135:18442

TITLE: Adaptation of influenza A viruses to cells

expressing low levels of sialic acid leads

to loss of neuraminidase activity

AUTHOR(S): Hughes, Mark T.; McGregor, Martha; Suzuki, Takashi;

Suzuki, Yasuo; Kawaoka, Yoshihiro

CORPORATE SOURCE: Department of Pathobiological Sciences, School of

Veterinary Medicine, University of Wisconsin-Madison,

Madison, WI, 53706, USA

SOURCE: Journal of Virology (2001), 75(8), 3766-3770

CODEN: JOVIAM; ISSN: 0022-538X

PUBLISHER: American Society for Microbiology

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DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     Influenza A viruses possess two virion surface proteins,
     hemagglutinin (HA) and neuraminidase (NA). The HA binds to
     sialyloligosaccharide viral receptors, while the NA removes sialic
     acids from the host cell and viral sialyloligosaccharides. Alterations of
     the HA occur during adaptation of influenza viruses to new host
     species, as in the 1957 and 1968 influenza pandemics. To gain a
     better understanding of the contributions of the HA and possibly the NA to
     this process, we generated cell lines expressing reduced levels
     of the influenza virus receptor determinant, sialic
     acid, by selecting Madin-Darby canine kidney
     cells resistant to a lectin specific for sialic
     acid linked to galactose by \alpha(2-3) or \alpha(2-6) linkages. One of
     these cell lines had less than 1/10 as much N-acetylneuraminic
     acid as its parent cell line. When serially passaged in this cell line,
     human H3N2 viruses lost sialidase activity due to a large internal
     deletion in the NA gene, without alteration of the HA gene. These
     findings indicate that NA mutations can contribute to the
     adaptation of influenza A virus to new host environments and
     hence may play a role in the transmission of virus across species.
                               THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
                         29
REFERENCE COUNT:
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
L9
     Entered STN: 07 Jun 1999
                         1999:344861 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         131:4240
                         Immunoglobulin molecules having a synthetic variable
TITLE:
                         region and modified specificity
                         Burch, Ronald M.
INVENTOR(S):
                         Euro-Celtique, S.A., Bermuda
PATENT ASSIGNEE(S):
                         PCT Int. Appl., 123 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT N	10.			KINI)]	DATE		1	APPL:	[CAT]	ION 1	10.		DA	ATE	
WO 99253	 378	-		A1	_	1999	0527	1	WO 19	998-1	JS243	302		19	9981	113
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CA 23102															9981	
WO 99253															9981	
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             TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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                                19990607
                                             AU 1999-14597
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     AU 9914597
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     AU 763029
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                          B2
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     AU 737457
     EP 1030684
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PRIORITY APPLN. INFO .:
                                             US 1998-81403P
                                                                 P 19980410
                                             US 1998-191780
                                                                 A1 19981113
                                             WO 1998-US24302
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                                             US 2001-963232
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                                             WO 2002-US27446
                                                                 W 20020828
     The invention provides modified Ig mols., particularly antibodies, that
AB
     immunospecifically bind a first member of a binding pair which binding
     pair consists of the first member and a second member, which Igs have a
     variable domain containing one or more complimentary determining regions
     contain the amino acid sequence of a binding site for the second member of
     the binding pair. The first member is a tumor antigen or an antigen of an
     infectious disease agent, and the second member is a mol. on the surface
     of an immune cell. The invention further provides for therapeutic and
     diagnostic use of the modified Ig.
                                THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                         13
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
L9
     Entered STN: 20 Mar 1997
                         1997:185285 CAPLUS
ACCESSION NUMBER:
                         126:274582
DOCUMENT NUMBER:
TITLE:
                         Differences in sialic acid-galactose
                         linkages in the chicken egg amnion and allantois
                          influence human influenza virus receptor
                          specificity and variant selection
                          Ito, Toshihiro; Suzuki, Yasuo; Takada, Ayato;
AUTHOR(S):
                         Kawamoto, Ayumi; Otsuki, Koichi; Masuda, Hiroyuki;
                         Yamada, Mika; Suzuki, Takashi; Kida, Hiroshi; Kawaoka,
                         Yoshihiro
CORPORATE SOURCE:
                         Dep. Disease Control, Grad. Sch. Vet. Med., Sapporo,
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060, Japan

Journal of Virology (1997), 71(4), 3357-3362 SOURCE:

CODEN: JOVIAM; ISSN: 0022-538X American Society for Microbiology

Journal DOCUMENT TYPE:

PUBLISHER:

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English LANGUAGE:

Human influenza viruses are more efficiently isolated by inoculating patient samples into the amniotic rather than the allantoic cavity of embryonated chicken eggs. This type of cultivation selects

virus variants with mutations around the hemagglutinin (HA)

receptor binding site. To understand the mol. basis of these phenomena,

the abundances of sialic acid (SA) linked to galactose (Gal) by

the α -2,3 linkage (SA α 2,3Gal) and SA α a2,6Gal in egg

amniotic and allantoic cells and in Madin-

Darby canine kidney (MDCK) cells was

investigated. Using SA-Gal linkage-specific lectins (Maackia amurensis agglutinin specific for SA\alpha2,6Gal and Sambucus nigra agglutinin specific for SAa2, 3Gal), SAa2, 3Gal was found in

both allantoic and amniotic cells and $SA\alpha2,6Gal$ in only the amniotic

cells. MDCK cells contained both linkages. To

investigate how this difference in abundances of SA\alpha2,3Gal and

 $SA\alpha2,6Gal$ in allantoic and amniotic cells affects the appearance of host cell variants in eggs, the receptor

specificities and HA amino acid sequences of 2 different patient viruses which were isolated and passaged in the amnion or in the allantois and

were determined and compared with MDCK cell-grown viruses.

The viruses maintained high $SA\alpha 2$, 6Gal specificities when grown in

MDCK cells or following ≤2 amniotic passages;

however, further passages in either the amnion or allantois resulted in the acquisition of, or a complete shift to, SAa2,3Gal specificity, depending on the virus strain. This change in receptor specificity was accompanied by the appearance of variants in the population with Leu-to-Gln mutations at position 226 in their HA. These findings suggest that lack of $SA\alpha 2$, 6Gal linkages in the allantois of

chicken eggs is a selective pressure for the appearance of host cell variants with altered receptor specificities and amino acid changes at position 226.

REFERENCE COUNT:

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS 35 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN Ь9

Entered STN: 16 Sep 1990

ACCESSION NUMBER: 1990:495736 CAPLUS

DOCUMENT NUMBER:

113:95736

TITLE:

Mutation in antigenicity of

influenza virus hemagglutinin and

neuraminidase glycoprotein, and mechanism of the

sugar-chain containing sialic acid in cell

membrane

AUTHOR(S):

Suzuki, Yasuo; Matsumoto, Makoto

CORPORATE SOURCE:

Fac. Pharm. Sci., Univ. Shizuoka, Shizuoka, 422, Japan Ikagaku Oyo Kenkyu Zaidan Kenkyu Hokoku (1989), Volume

SOURCE:

Date 1988, 7, 171-6

CODEN: IOKHEP; ISSN: 0914-5117

DOCUMENT TYPE:

Journal; General Review Japanese

GUAGE:

Searcher : 571-272-2528 Shears

AB A review, with 15 refs., on the mutation of influenza virus hemagglutinin and neuraminidase, and mechanism of the recognition of sugar-chain containing sialic acid in cell membrane.

L9 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 19 Aug 1988

ACCESSION NUMBER: 1988:450425 CAPLUS

DOCUMENT NUMBER: 109:50425

TITLE: Structure of the influenza virus

hemagglutinin complexed with its receptor,

sialic acid

AUTHOR(S): Weis, W.; Brown, J. H.; Cusack, S.; Paulson, J. C.;

Skehel, J. J.; Wiley, D. C.

CORPORATE SOURCE: Howard Hughes Med. Inst., Harvard Univ., Cambridge,

MA, 02138, USA

SOURCE: Nature (London, United Kingdom) (1988), 333(6172),

426-31

CODEN: NATUAS; ISSN: 0028-0836

DOCUMENT TYPE: Journal LANGUAGE: English

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The 3-dimensional structures of influenza virus hemagglutinins complexed with cell receptor analogs show sialic acids bound to a pocket of conserved amino acids surrounded by antibody-binding sites. Sialic acid fills the conserved pocket, demonstrating that it is the influenza virus receptor. The proximity of the antibody-binding sites suggests that antibodies neutralize virus infectivity by preventing virus-to-cell binding. The structures suggest approaches to the design of anti-viral drugs that could block attachment of viruses to cells.

L9 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 19 Apr 1986

ACCESSION NUMBER: 1986:123983 CAPLUS

DOCUMENT NUMBER: 104:123983

TITLE: Variant influenza virus hemagglutinin that

induces fusion at elevated pH

AUTHOR(S): Doms, Robert W.; Gething, Mary Jane; Henneberry, Jean;

White, Judy; Helenius, Ari

CORPORATE SOURCE: Sch. Med., Yale Univ., New Haven, CT, 06510, USA

SOURCE: Journal of Virology (1986), 57(2), 603-13

CODEN: JOVIAM; ISSN: 0022-538X

DOCUMENT TYPE: Journal LANGUAGE: English

The hemagglutinin (HA) glycoprotein of influenza virus performs 2 critical roles during infection. It binds virus to cell surface sialic acids, and under mildly acid conditions, it induces fusion of the virion with intracellular membranes, liberating the genome into the cytoplasm. The pH dependence of fusion varies for different influenza virus strains. The isolation and characterization is described of a naturally occurring variant of the X31 strain that fuses at a pH 0.2 units higher than the parent strain does and that is less sensitive to the effects of ammonium chloride, a compound known to elevate endosomal pH. The bromelain-solubilized ectodomain of the variant HA displayed a corresponding shift in the pH at which it changed conformation and bound to liposomes. Cloning and sequencing of the variant HA gene revealed amino acid substitutions at 3 positions in the polypeptide. Two

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DERWENT CLASS:

PATENT ASSIGNEE(S): COUNTRY COUNT: PATENT INFORMATION:

INVENTOR(S):

substitutions were in antigenic determinants in the globular region of HA1, and the 3rd occurred in HA2 near the base of the mol. Chimeric HA mols. expressed in CV-1 cells from SV40 virus-based vectors were used to show that the change in HA2 was solely responsible for the altered fusion phenotype. This substitution, asparagine for aspartic acid at position 132, disrupted a highly conserved interchain salt bridge between adjacent HA2 subunits. The apparent role of this residue in stabilizing the HA trimer is consistent with the idea that the trimer dissocs. at low pH. Furthermore, the results demonstrate that influenza virus populations contain fusion variants, raising the possibility that such variants may play a role in the evolution of the virus.

L1	1	SEA FILE=REGISTRY ABB=ON PLU=ON "N-ACETYLNEURAMINIC ACID"/CN						
L2	1	SEA FILE=REGISTRY ABB=ON PLU=ON "N-GLYCOLYLNEURAMINIC ACID"/CN						
L3	2	SEA FILE=REGISTRY ABB=ON PLU=ON L1 OR L2						
L4	609	SEA FILE=REGISTRY ABB=ON PLU=ON LECTIN ?/CN						
L10		SEA FILE=CAPLUS ABB=ON PLU=ON L3 OR SIALIC OR ACETYLNEURAMINI C OR ACETYLSIALIC OR GLYCOLYLNEURAMINIC OR GLYCOLOYLNEURAMINIC OR (AC OR ACETYL OR GLYCOLOYL OR GLYCOLYL) (1W) NEURAMINIC OR NEUNAC OR NEU NAC OR NANA OR GCNEU OR GC NEU OR NGNA OR SA(S) SIALIC						
L11	931	SEA FILE=CAPLUS ABB=ON PLU=ON L10 AND (INFLUENZA? OR						
		ORTHOMYXO(W)(VIRID? OR VIRUS?) OR ORTHOMYXOVIR? OR MYXOVIR?)						
L12		SEA FILE=CAPLUS ABB=ON PLU=ON L11 AND (MUTAT? OR MUTANT OR MUTAGEN? OR POLYMORPH?)						
L13		SEA FILE=CAPLUS ABB=ON PLU=ON L12 AND (L4 OR LECTIN)						
L14	11 SEA FILE=CAPLUS ABB=ON PLU=ON L13 AND (AVES OR AVIAN OR BIRD OR ANIMAL OR MAMMAL? OR MINK OR MDCK OR MADIN DARBY? OR VISON OR LUTREOLA OR MACRODON OR WILD TYPE# OR SWINE OR PIG OR HOG OR BOVINE OR CATTLE OR COW OR PORCINE OR SIMIAN OR MONKEY OR APE OR CHIMP OR CHIMPANZ? OR CANINE OR DOG) (S) CELL							
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ACCE	SSION NUMBE							

useful as vaccine, comprises decreased levels of sialic acid containing host cell receptors for

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(KAWA-I) KAWAOKA Y; (WISC) WISCONSIN ALUMNI RES FOUND

571-272-2528

influenza virus.

B04 C06 D16

KAWAOKA, Y

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US	2002	219	7705	5	A1	200	212	226	(20	0030	04)												
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APPLICATION DETAILS:

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PATENT NO	KIND	APPLICATION	DATE
WO 2002068	632 A2	WO 2002-US5455	20020222
US 2002197	705 Al Provisio	onal US 2001-271044	P 20010223
		US 2002-81170	20020222
EP 1364006	A2	EP 2002-724994	20020222
		WO 2002-US5455	20020222
AU 2002255	590 A1	AU 2002-255590	20020222

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1364006	A2 Based on	WO 2002068632
AU 2002255590	A1 Based on	WO 2002068632

PRIORITY APPLN. INFO: US 2001-271044P 20010223; US

2002-81170 20020222

AN 2002-706991 [76] WPIDS

AB WO 200268632 A UPAB: 20021125

NOVELTY - An isolated mutant cell (I) comprising decreased levels of sialic acid containing host cell receptors for influenza virus relative to a corresponding wild-type cell which supports efficient influenza virus replication, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) isolating a cell that has decreased levels of receptors for influenza virus, comprising:
- (a) contacting a population of cells permissive for influenza virus replication and sensitive to lectin or agglutinin growth inhibition with an amount of lectin or agglutinin to yield cells that are resistant to growth inhibition by the lectin or agglutinin that specifically binds sialic acid; and
- (b) isolating a **lectin** or agglutinin-resistant cell having decreased levels of receptors for **influenza** virus;
- (2) a lectin- or agglutinin-resistant cell isolated by method (1);

- (3) propagating influenza viruses having reduced sialidase activity by contacting (I) and the lectin- or agglutinin-resistant cell with an amount of an influenza virus having reduced sialidase activity to yield progeny virus;
 - (4) a progeny virus obtained by method (3);
- (5) using a host cell having decreased levels of **sialic** acid containing host cell receptors for **influenza** virus, comprising:
- (a) contacting (I) and the lectin- or agglutinin-resistant cell with an amount of an influenza virus having wild-type levels of sialidase activity to yield progeny virus; and
- (b) serially propagating the progeny virus with (I) and the lectin- or agglutinin-resistant cell to yield adapted viruses that efficiently replicate in the mutant cell and the lectin or agglutinin-resistant cell; and
- (6) isolated adapted virus obtained by method (5), which does not have a mutation in the hemagglutinin (HA) gene relative to the virus having substantially wild-type levels of sialidase activity.

ACTIVITY - Virucide; Immunomodulator.

No biological data is given.

MECHANISM OF ACTION - Vaccine; Gene therapy.

USE - The mutant cell is useful in propagating

influenza virus having reduced or decreased sialidase activity. The obtained virus may be employed in vaccines, in preparing monoclonal or polyclonal antibodies specific for those viruses, in preparing recombinant or reassortant viruses, or for gene delivery including the delivery of immunogenic non-influenza virus proteins or peptide for vaccines or therapeutic proteins.

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L17 ANSWER 2 OF 9

MEDLINE on STN

DUPLICATE 1

ACCESSION NUMBER: DOCUMENT NUMBER:

2002283390 MEDLINE PubMed ID: 11884410

TITLE:

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Role of phosphatidylserine exposure and sugar chain

desialylation at the surface of influenza

virus-infected cells in efficient phagocytosis by

macrophages.

AUTHOR:

Watanabe Yuichi; Shiratsuchi Akiko; Shimizu Kazufumi;

Takizawa Takenori; Nakanishi Yoshinobu

CORPORATE SOURCE:

Graduate School of Medical Science, Kanazawa University,

13-1 Takara-machi, Kanazawa, Ishikawa 920-0934, Japan.

SOURCE:

Journal of biological chemistry, (2002 May 17) 277 (20)

18222-8.

Journal code: 2985121R. ISSN: 0021-9258.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200207

ENTRY DATE:

Entered STN: 20020528

Last Updated on STN: 20030105 Entered Medline: 20020716

AB HeLa cells infected with influenza A virus undergo typical caspase-dependent apoptosis and are efficiently phagocytosed by mouse peritoneal macrophages in a manner mediated by the membrane phospholipid

phosphatidylserine, which is translocated to the surface of virus-infected cells during apoptosis. However, the extent of phagocytosis is not always parallel with the level of phosphatidylserine externalization. examined the involvement of influenza virus neuraminidase (NA) in efficient phagocytosis of virus-infected cells. HeLa cells infected with an influenza virus strain expressing temperature-sensitive NA underwent apoptosis and produced viral proteins, including the defective NA, at a non-permissive temperature to almost the same extent as cells infected with the wildtype virus. The cells were, however, phagocytosed by macrophages with reduced efficiency. In addition, phagocytosis of cells infected with the wild-type virus was severely inhibited when the cells had been maintained in the presence of the NA inhibitor zanamivir. On the other hand, the binding of sialic acid-recognizing lectins to the cell surface declined after infection with the wild-type virus. The decrease in the extent of lectin binding was greatly attenuated when cells were infected with the mutant virus or when wild-type virus-infected cells were maintained in the presence of zanamivir. These results indicate that sugar chains are desialylated by NA at the surface of virus-infected cells. We conclude that the presence of both phosphatidylserine and asialoglycomoieties on the cell surface is required for efficient phagocytosis of influenza virus-infected cells by macrophages.

L17 ANSWER 3 OF 9 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 2001166411 MEDLINE DOCUMENT NUMBER: PubMed ID: 11264365

TITLE: Adaptation of influenza A viruses to cells

expressing low levels of sialic acid leads to

loss of neuraminidase activity.

AUTHOR: Hughes M T; McGregor M; Suzuki T; Suzuki Y; Kawaoka Y

CORPORATE SOURCE: Department of Pathobiological Sciences, School of

Veterinary Medicine, University of Wisconsin-Madison,

Madison, Wisconsin 53706, USA.

SOURCE: Journal of virology, (2001 Apr) 75 (8) 3766-70.

Journal code: 0113724. ISSN: 0022-538X.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

2 C

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200104

ENTRY DATE: Entered STN: 20010417

Last Updated on STN: 20010417 Entered Medline: 20010412

AB Influenza A viruses possess two virion surface proteins, hemagglutinin (HA) and neuraminidase (NA). The HA binds to sialyloligosaccharide viral receptors, while the NA removes sialic acids from the host cell and viral sialyloligosaccarides. Alterations of the HA occur during adaptation of influenza viruses to new host species, as in the 1957 and 1968 influenza pandemics. To gain a better understanding of the contributions of the HA and possibly the NA to this process, we generated cell lines expressing reduced levels of the influenza virus receptor determinant, sialic acid, by selecting Madin-Darby canine kidney cells resistant to a lectin specific for sialic

acid linked to galactose by alpha(2-3) or alpha(2-6) linkages. One of these cell lines had less than 1/10 as much N-acetylneuraminic acid as its parent cell line. When serially passaged in this cell line, human H3N2 viruses lost sialidase activity due to a large internal deletion in the NA gene, without alteration of the HA gene. These findings indicate that NA mutations can contribute to the adaptation of influenza A virus to new host environments and hence may play a role in the transmission of virus across species.

L17 ANSWER 4 OF 9 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2001192176 EMBASE

TITLE: Safe as mother's milk: Carbohydrates as future

anti-adhesion drugs for bacterial diseases.

AUTHOR: Sharon N.; Ofek I.

CORPORATE SOURCE: N. Sharon, Department of Biological Chemistry, Weizmann

Institute of Science, Rehovot 76100, Israel.

bfsharon@weizmann.weizmann.ac.il

SOURCE: Glycoconjugate Journal, (2000) 17/7-9 (659-664).

Refs: 24

ISSN: 0282-0080 CODEN: GLJOEW

COUNTRY: Netherlands

DOCUMENT TYPE: Journal; General Review FILE SEGMENT: 030 Pharmacology

037 Drug Literature Index

LANGUAGE: English
SUMMARY LANGUAGE: English

The majority of infectious diseases are initiated by adhesion of pathogenic organisms to the tissues of the host. In many cases, this adhesion is mediated by lectins present on the surface of the infectious organism that bind to complementary carbohydrates on the surface of the host tissues. Lectin-deficient mutants often lack ability to initiate infection. Soluble carbohydrates recognized by the bacterial lectins block the adhesion of the bacteria to animal cells in vitro. Moreover, they have also been shown to protect against experimental infection by lectin -carrying bacteria in different organs of mammals such as mice, rabbits, calves and monkeys. In a phase II clinical trial, a pentasaccharide shown to have anti-adhesive activity against Streptococcus pneumoniae and Hemophilus influenzae in vitro failed to protect young children from nasopharyngeal colonization with these organisms and from developing otitis media. This could be because insufficient drug was delivered via nasal spray, because bacteria express multiple specificities, the inhibition of which may require a cocktail of oligosaccharides, or because children have different carbohydrate receptors from those of adults. The results of a clinical trial in which N-acetylneuraminyl(α 2-3)lactose was administered orally to Helicobacter pylori positive patients in an effort to reduce or eradicate bacterial colonization, are awaited with interest. Although the high cost of production of the required oligosaccharides is falling with the recent introduction of enzymatic methods of synthesis, new technologies, in particular the use of engineered bacteria, promise to lower it even further. Attachment of the oligosaccharides to soluble polymeric carriers will increase greatly their effectiveness as antiadhesion agents. There is no doubt that anti-adhesive oligosaccharides will in the near future join the arsenal of drugs for the therapy of bacterial diseases.

L17 ANSWER 5 OF 9 MEDLINE on STN DUPLICATE 3

ACCESSION NUMBER: 1999196647 MEDLINE DOCUMENT NUMBER: PubMed ID: 10099011

TITLE: Cell-surface sialoglycoconjugate structures in

wild-type and mutant Crithidia

fasciculata.

AUTHOR: do Valle Matta M A; Sales Alviano D; dos Santos Silva

Couceiro J N; Nazareth M; Meirelles L; Sales Alviano C;

Angluster J

CORPORATE SOURCE: Departamento de Ultra-estrutura e Biologia Celular,

Instituto Oswaldo Cruz, Fundacao Oswaldo Cruz, Rio de

Janeiro, RJ, Brazil.

SOURCE: Parasitology research, (1999 Apr) 85 (4) 293-9.

Journal code: 8703571. ISSN: 0932-0113.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

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FILE SEGMENT: Priority Journals

ENTRY MONTH: 199907

ENTRY DATE: Entered STN: 19990727

Last Updated on STN: 19990727 Entered Medline: 19990715

The cell-surface expression of sialoglycoconjugate structures in AB wild-type Crithidia fasciculata and its TFR(R1) drug-resistant mutant was analyzed with the aid of an influenza C virus strain, lectin, enzymatic treatment, and flow cytofluorimetry analysis probed with fluorescein isothiocyanate-labeled (FITC) lectins. 9-0-Acetyl-Nacetyl neuraminic acid (Neu5, 9Ac2) structures mediate influenza C virus cell-binding. The SAalpha2,3Gal and SAalpha2,6Gal sequences are specifically recognized by Maackia amurensis (MAA) and Sambucus nigra (SNA) lectins, respectively. On the basis of these parameters the TFR(R1) mutant strain of C. fasciculata was found to contain exposed sialoglycoconjugates bearing Neu5,9Ac2 surface structures. After the removal of sialic acid residues by neuraminidase activity the marked increases in PNA (peanut agglutinin)-mediated agglutinating activity showed that those acidic units on C. fasciculata cells were glycosidically linked to D-galactose. The bond involves SAalpha2,6Gal and SAalpha2,3Gal linkages as suggested by the use of FITC-SNA and FITC-MAA lectins, respectively. Both SAalpha2,3Gal and SAalpha2,6Gal sequences were preferentially expressed by the TFR(R1) mutant. The SAalpha2,6 linkage markedly predominated. In the TFR(R1) mutant, but not in wildtype cells, two distinct populations of cells

were distinguished by reactivity with FITC-SNA, one of which was enriched with surface SAalpha2,6Gal sequences. These diverse findings suggest that sialoglycoconjugate structures present on the flagellate surface may be associated with mutation and the cell growth cycle in C. fasciculata.

L17 ANSWER 6 OF 9 CABA COPYRIGHT 2004 CABI on STN

ACCESSION NUMBER: 1999:44193 CABA

DOCUMENT NUMBER: 19990802222

TITLE: Cell-surface sialoglycoconjugate structures in wild-type and

mutant Crithidia fasciculata

Matta, M. A. do V.; Alviano, D. S.; Couceiro, J. N. AUTHOR:

dos S. S.; Nazareth, M.; Meirelles, L.; Alviano, C.

S.; Angluster, J.

Instituto de Microbiologia Professor Paulo de Goes, CORPORATE SOURCE:

> Universidade Federal do Rio de Janeiro, Cidade Universitaria, Ilha do Fundao, 21944-590 Rio de

Janeiro, RJ, Brazil.

Parasitology Research, (1999) Vol. 85, No. 4, pp. SOURCE:

293-299. 60 ref. ISSN: 0044-3255

DOCUMENT TYPE:

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English LANGUAGE:

Entered STN: 19990414 ENTRY DATE:

Last Updated on STN: 19990414

The cell-surface expression of sialoglycoconjugate structures in wild-type Crithidia fasciculata and its drug-resistant

mutant (TFRR1) was analysed with the aid of an influenza C virus strain, lectin, enzymatic treatment and flow

Journal

cytofluorometry analysis probed with fluorescein isothiocyanate-labelled

(FITC) lectins. 9-0-acetyl-N-acetyl neuraminic

acid (Neu5, 9Ac2) structures mediate influenza C virus

cell-binding. The SA[alpha]2,3Gal and SA

[alpha] 2,6Gal sequences are specifically recognized by Maackia amurensis (MAA) and Sambucus nigra (SNA) lectins, respectively. Using these parameters, the TFRR1 mutant strain was shown to contain exposed sialoglycoconjugates bearing Neu5,9Ac2 surface structures. After

the removal of sialic acid residues by neuraminidase activity,

the marked increases in PNA (peanut agglutinin)-mediated agglutinating activity showed that those acidic units were glycosidically linked to D-galactose. The bond involves SA[alpha]2,6Gal and SA

[alpha]2,3Gal linkages, as suggested by the use of FITC-SNA and FITC-MAA

lectins, respectively. Both SA[alpha]2,3Gal and

SA[alpha]2,6Gal sequences were preferentially expressed by the

TFRR1 mutant. The SA[alpha]2,6 linkage markedly predominated. In the TFRR1 mutant, but not wild-

type cells, 2 distinct populations of cells

were distinguished by reactivity with FITC-SNA, one of which was enriched with surface SA[alpha]2,6Gal sequences. The results suggest that sialoglycoconjugate structures present on the cell surface may be associated with mutation and the cell growth cycle

in C. fasciculata.

L17 ANSWER 7 OF 9 JICST-EPlus COPYRIGHT 2004 JST on STN

990045472 JICST-EPlus ACCESSION NUMBER:

Influenza Viruses and their Receptor Sugar TITLE:

Recognition.

AUTHOR:

SUZUKI YASUO

CORPORATE SOURCE:

Univ. of Shizuoka, Sch. of Pharm. Sci.

SOURCE:

Tanpakushitsu Kakusan Koso (Protein, Nucleic Acid and Enzyme), (1998) vol. 43, no. 16, pp. 2559-2566. Journal

Code: F0325A (Fig. 6, Tbl. 3, Ref. 33)

CODEN: TAKKAJ; ISSN: 0039-9450

PUB. COUNTRY:

Japan

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

ب بالمير

Japanese

571-272-2528 Searcher : Shears

STATUS:

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New

This paper briefly outlines the molecular mechanisms how the influenza virus is propagated into other animal species beyond the barrier of host's species specificity by focusing on the knowledges on influenza virus A(A). The hemagglutinin of A is proved to have molecular evolution by receiving host dependent selection in sialic acid molecular species of Neu5Ac, andNeu5Gc of the sialoglyco chains of host cell membrane receptors. Research results on the host range of A, mutation in A, A receptor's sialoglyco chain recognition specificity, and the selection occurred in the evolution of A for its receptor's sialoglyco chains are described.

L17 ANSWER 8 OF 9

MEDLINE on STN

DUPLICATE 4

ACCESSION NUMBER: DOCUMENT NUMBER:

97214021 MEDLINE PubMed ID: 9060710

TITLE:

Differences in **sialic** acid-galactose linkages in the chicken egg amnion and allantois influence human **influenza** virus receptor specificity and variant

selection.

AUTHOR:

Ito T; Suzuki Y; Takada A; Kawamoto A; Otsuki K; Masuda H;

Yamada M; Suzuki T; Kida H; Kawaoka Y

CORPORATE SOURCE:

Department of Disease Control, Graduate School of

Veterinary Medicine, Hokkaido University, Sapporo, Japan. AI33898 (NIAID)

CONTRACT NUMBER:

SOURCE:

Journal of virology, (1997 Apr) 71 (4) 3357-62.

Journal code: 0113724. ISSN: 0022-538X.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

OTHER SOURCE:

GENBANK-U77831; GENBANK-U77832; GENBANK-U77833; GENBANK-U77834; GENBANK-U77835; GENBANK-U77836; GENBANK-U77837; GENBANK-U77838; GENBANK-U77839;

GENBANK-U77840

ENTRY MONTH:

199704

ENTRY DATE:

Entered STN: 19970424

Last Updated on STN: 19990129 Entered Medline: 19970411

Human influenza viruses are more efficiently isolated by AB inoculating patient samples into the amniotic rather than the allantoic cavity of embryonated chicken eggs. This type of cultivation selects virus variants with mutations around the hemagglutinin (HA) receptor binding site. To understand the molecular basis of these phenomena, we investigated the abundances of sialic acid (SA) linked to galactose (Gal) by the alpha-2,3 linkage (SA alpha2,3Gal) and SA alpha2,6Gal in egg amniotic and allantoic cells and in Madin-Darby canine kidney (MDCK) cells. Using SA-Gal linkage-specific lectins (Maackia amurensis agglutinin specific for SA alpha2,6Gal and Sambucus nigra agglutinin specific for SA alpha2,3Gal), we found SA alpha2,3Gal in both allantoic and amniotic cells and SA alpha2,6Gal in only the amniotic cells. MDCK cells contained both linkages. To investigate how this difference in abundances of SA alpha2, 3Gal and SA alpha2, 6Gal in allantoic and amniotic cells affects the appearance of host cell variants in eggs, we determined the receptor specificities and HA amino acid sequences of two

different patient viruses which were isolated and passaged in the amnion or in the allantois and which were compared with MDCK cell-grown viruses. We found that the viruses maintained high SA alpha2,6Gal specificities when grown in MDCK cells or following up to two amniotic passages; however, further passages in either the amnion or allantois resulted in the acquisition of, or a complete shift to, SA alpha2,3Gal specificity, depending on the virus strain. This change in receptor specificity was accompanied by the appearance of variants in the population with Leu-to-Gln mutations at position 226 in their HA. These findings suggest that lack of SA alpha2,6Gal linkages in the allantois of chicken eggs is a selective pressure for the appearance of host cell variants with altered receptor specificities and amino acid changes at position 226.

L17 ANSWER 9 OF 9 MEDLINE on STN ACCESSION NUMBER: 81239727 MEDLINE DOCUMENT NUMBER: PubMed ID: 6265461

TITLE: Glycosylation does not determine segregation of viral

envelope proteins in the plasma membrane of epithelial

cells.

AUTHOR: Green R F; Meiss H K; Rodriguez-Boulan E

SOURCE: Journal of cell biology, (1981 May) 89 (2) 230-9.

Journal code: 0375356. ISSN: 0021-9525.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

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Sec. 9

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198109

ENTRY DATE: Entered STN: 19900316

Last Updated on STN: 19900316 Entered Medline: 19810915

Enveloped viruses are excellent tools for the study of the biogenesis of epithelial polarity, because they bud asymmetrically from confluent monolayers of epithelial cells and because polarized budding is preceded by the accumulation of envelope proteins exclusively in the plasma membrane regions from which the viruses bud. In this work, three different experimental approaches showed that the carbohydrate moieties do not determine the final surface localization of either influenza (WSN strain) or vesicular stomatitis virus (VSV) envelope proteins in infected Madin-Darby Canine Kidney (MDCK) cells, as determined by immunofluorescence and immunoelectron microscopy, using ferritin as a marker. concanavalin A- and ricin 1-resistant mutants of MDCK cells, with alterations in glycosylation, exhibited surface distributions of viral glycoproteins identical to those of the parental cell line, i.e., influenza envelope proteins were exclusively found in the apical surface, whereas VSV G protein was localized only in the basolateral region. MDCK cells treated with tunicamycin, which abolishes the glycosylation of viral glycoproteins, exhibited the same distribution of envelope proteins as control cells, after infection with VSF or influenza. A temperature-sensitive mutant of influenza WSN, ts3, which, when grown at the nonpermissive temperature of 39.5 degrees C, retains the sialic acid residues in the envelope glycoproteins, showed, at both 32 degrees C (permissive temperature) and 39.5 degrees C, budding polarity and viral glycoprotein distribution identical to those of

the parental WSN strain, when grown in MDCK cells. These results demonstrate that carbohydrate moieties are not components of the addressing signals that determine the polarized distribution of viral envelope proteins, and possibly of the intrinsic cellular plasma membrane proteins, in the surface of epithelial cells.

(FILE 'MEDLINE' ENTERED AT 10:49:52 ON 06 DEC 2004)

L18 22 SEA FILE=MEDLINE ABB=ON PLU=ON (NEURAMINIC ACIDS AND (MUTATION OR MUTAGENESIS OR "POLYMORPHISM (GENETICS)"))/CT

L19 2 SEA FILE=MEDLINE ABB=ON PLU=ON L18 AND LECTINS/CT

L18 22 SEA FILE=MEDLINE ABB=ON PLU=ON (NEURAMINIC ACIDS AND

(MUTATION OR MUTAGENESIS OR "POLYMORPHISM (GENETICS)"))/CT

L20 1 SEA FILE=MEDLINE ABB=ON PLU=ON L18 AND ORTHOMYXOVIRIDAE/CT

L21 3 L19 OR L20

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L21 ANSWER 1 OF 3 MEDLINE on STN

ACCESSION NUMBER: 2001324837 MEDLINE DOCUMENT NUMBER: PubMed ID: 11294209

TITLE: Comparative genomics. Gene expression differs in human and

chimp brains.

AUTHOR: Normile D

SOURCE: Science, (2001 Apr 6) 292 (5514) 44-5.

Journal code: 0404511. ISSN: 0036-8075.

PUB. COUNTRY: United States
DOCUMENT TYPE: News Announcement

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200106

ENTRY DATE: Entered STN: 20010611

Last Updated on STN: 20010611 Entered Medline: 20010607

ED Entered STN: 20010611

Last Updated on STN: 20010611 Entered Medline: 20010607

L21 ANSWER 2 OF 3 MEDLINE on STN ACCESSION NUMBER: 75018879 MEDLINE DOCUMENT NUMBER: PubMed ID: 4472498

TITLE: Characterization of temperature sensitive influenza virus

mutants defective in neuraminidase.

AUTHOR: Palese P; Tobita K; Ueda M; Compans R W SOURCE: Virology, (1974 Oct) 61 (2) 397-410.

Journal code: 0110674. ISSN: 0042-6822.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197501

ENTRY DATE: Entered STN: 19900310

Last Updated on STN: 19900310

Entered Medline: 19750117

ED Entered STN: 19900310

Last Updated on STN: 19900310 Entered Medline: 19750117

L21 ANSWER 3 OF 3 MEDLINE on STN ACCESSION NUMBER: 74157535 MEDLINE DOCUMENT NUMBER: PubMed ID: 4857008

TITLE:

Glycosphingolipids of wild-type and mutant lectin-resistant Chinese hamster ovarian cells.

AUTHOR: Yogeeswaran G; Murray R K; Wright J A

Biochemical and biophysical research communications, (1974 SOURCE:

Feb 27) 56 (4) 1010-6.

Journal code: 0372516. ISSN: 0006-291X.

PUB. COUNTRY:

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United States

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English LANGUAGE:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197407

Entered STN: 19900310 ENTRY DATE:

Last Updated on STN: 19900310

Entered Medline: 19740705

Entered STN: 19900310 ED

Last Updated on STN: 19900310 Entered Medline: 19740705

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FILE 'HOME' ENTERED AT 10:51:11 ON 06 DEC 2004

06dec04 10:53:45 User219783 Session D2066.2

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File 65:Inside Conferences 1993-2004/Nov W4
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  File 440: Current Contents Search(R) 1990-2004/Dec 06
         (c) 2004 Inst for Sci Info
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  File 113: European R&D Database 1997
         (c) 1997 Reed-Elsevier (UK) Ltd All rts reserv
*File 113: This file is closed (no updates)
  File 357: Derwent Biotech Res. 1982-2004/Dec W2
         (c) 2004 Thomson Derwent & ISI
      Set Items Description
              Description
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        Items
              SIALIC OR ACETYLNEURAMINIC OR ACETYLSIALIC OR GLYCOLYLNEUR-
        12228
s1
             AMINIC OR GLYCOLOYLNEURAMINIC OR (AC OR ACETYL OR GLYCOLOYL OR
              GLYCOLYL) (1W) NEURAMINIC OR NEUNAC OR NEU(W) NAC OR NANA OR GC-
             NEU OR GC(W) NEU OR NGNA OR SA(10N) SIALIC
                S1 AND (INFLUENZA? OR ORTHOMYXO(W)(VIRID? OR VIRUS?) OR OR-
S2
             THOMYXOVIR? OR MYXOVIR?)
                S2 AND (MUTAT? OR MUTAGEN? OR MUTANT? ? OR POLYMORPH? OR P-
S3
             OLY(W) (MORPHISM? ? OR MORPHIC?))
                S3 AND LECTIN? ?
S4
                S4 AND (AVES OR AVIAN OR BIRD? ? OR ANIMAL? ? OR MAMMAL? OR
S5
              MINK? ? OR MDCK? ? OR MADIN(W) DARBY? OR VISON OR LUTREOLA OR
             MACRODON OR WILD (W) TYPE? ? OR SWINE OR BOVINE OR COW OR CATTLE
              OR PORCINE OR PIG? ? OR HOG? ? OR SIMIAN OR MONKEY...
                S4 AND (CHIMPANZ? OR CANINE OR DOG? ?) (10N) CELL? ?
S6
                S5 OR S6
S7
           46
           38
                RD (unique items)
>>>No matching display code(s) found in file(s): 65, 113
8/3, AB/1
              (Item 1 from file: 440)
DIALOG(R) File 440: Current Contents Search(R)
(c) 2004 Inst for Sci Info. All rts. reserv.
13930778 Document Delivery Available: 000175685100105 References: 49
TITLE: Role of phosphatidylserine exposure and sugar chain desialylation at
    the surface of influenza virus-infected cells in efficient
    phagocytosis by macrophages
AUTHOR(S): Watanabe Y; Shiratsuchi A; Shimizu K; Takizawa T; Nakanishi
  Y (REPRINT)
AUTHOR(S) E-MAIL: nakanaka@kenroku.kanazawa-u.ac.jp
CORPORATE SOURCE: Kanazawa Univ, Grad Sch Med Sci, 13-1 Takara
  Machi/Kanazawa/Ishikawa 9200934/Japan/ (REPRINT); Kanazawa Univ, Grad Sch
  Med Sci, /Kanazawa/Ishikawa 9200934/Japan/; Nihon Univ, Itabashi Ku,
  /Tokyo 1738610//Japan/; Aichi Human Serv Ctr, Inst Dev Res, /Aichi
  4800392//Japan/
PUBLICATION TYPE: JOURNAL
PUBLICATION: JOURNAL OF BIOLOGICAL CHEMISTRY, 2002, V277, N20 (MAY 17), P
  18222-18228
GENUINE ARTICLE#: 553PR
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PUBLISHER: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814-3996 USA

ISSN: 0021-9258

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LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: HeLa cells infected with influenza A virus undergo typical caspase-dependent apoptosis and are efficiently phagocytosed by mouse peritoneal macrophages in a manner mediated by the membrane phospholipid phosphatidylserine, which is translocated to the surface of virus-infected cells during apoptosis. However, the extent of phagocytosis is not always parallel with the level of phosphatidylserine externalization. Here we examined the involvement of influenza virus neuraminidase (NA) in efficient phagocytosis of virus-infected cells. HeLa cells infected with an influenza virus strain expressing temperature-sensitive NA underwent apoptosis and produced viral proteins, including the defective NA, at a non-permissive temperature to almost the same extent as cells infected with the wild-type virus. The cells were, however, phagocytosed by macrophages with reduced efficiency. In addition, phagocytosis of cells infected with the wild-type virus was severely inhibited when the cells had been maintained in the presence of the NA inhibitor zanamivir. On the other hand, the binding of sialic acid-recognizing lectins to the cell surface declined after infection with the wild-type virus. The decrease in the extent of lectin binding was greatly attenuated when cells were infected with the mutant virus or when wildtype virus-infected cells were maintained in the presence of zanamivir. These results indicate that sugar chains are desialylated by NA at the surface of virus-infected cells. We conclude that the presence of both phosphatidylserine and asialoglycomoieties on the cell surface is required for efficient phagocytosis of influenza virus-infected cells by macrophages.

8/3,AB/2 (Item 2 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2004 Inst for Sci Info. All rts. reserv.

13545763 Document Delivery Available: 000174091100003 References: 153 TITLE: Loss of N-glycolylneuraminic acid in humans: Mechanisms, consequences, and implications for hominid evolution

AUTHOR(S): Varki A (REPRINT); Ruff C

CORPORATE SOURCE: Univ Calif San Diego, Glycobiol Res & Training Ctr, /La Jolla//CA/92093 (REPRINT); Univ Calif San Diego, Glycobiol Res & Training Ctr, /La Jolla//CA/92093; Univ Calif San Diego, Dept Med, /La Jolla//CA/92093; Univ Calif San Diego, Dept Cellular & Mol Med, /La Jolla//CA/92093

PUBLICATION TYPE: BOOK IN SERIES

PUBLICATION: YEARBOOK OF PHYSICAL ANTHROPOLOGY, VOL 44, 2001, V44, P54-69 GENUINE ARTICLE#: BT80Z

BOOK SERIES TITLE: YEARBOOK OF PHYSICAL ANTHROPOLOGY

PUBLISHER: WILEY-LISS, INC, 605 THIRD AVE, NEW YORK, NY 10158-0012 USA

ISBN: *********

ISSN: 0096-848X

LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: The surface of all mammalian cells is covered with a dense and complex array of sugar chains, which are frequently terminated by

members of a family of molecules called sialic acids. One particular sialic acid called N-glycolylneuraminic acid (Neu5Gc) is widely expressed on most mammalian tissues, but is not easily detectable on human cells. In fact, it provokes an immune response in adult humans. The human deficiency of Neu5Gc is explained by an inactivating mutation in the gene encoding CMP-N-acetylneuraminic acid hydroxylase, the rate-limiting enzyme in generating Neu5Gc in cells of other mammals. This deficiency also results in an excess of the precursor sialic acid N-acetylneuraminic acid (Neu5Ac) in humans. This mutation appears universal to modem humans, occurred sometime after our last common ancestor with the great apes, and happens to be one of the first known human-great ape genetic differences with an obvious biochemical readout. While the original selection mechanisms and major biological consequences of this human-specific mutation remain uncertain, several interesting clues are currently being pursued. First, there is evidence that the human condition can explain differences in susceptibility or resistance to certain microbial pathogens. Second, the functions of some endogenous receptors for sialic acids in the immune system may be altered by this difference. Third, despite the lack of any obvious alternate pathway for synthesis, Neu5Gc has been reported in human tumors and possibly in human fetal tissues, and traces have even been detected in normal human tissues. One possible explanation is that this represents accumulation of Neu5Gc from dietary sources of animal origin. Finally, a markedly reduced expression of hydroxylase in the brains of other mammals raises the possibility that the human-specific mutation of this enzyme could have played a role in human brain evolution. Yrbk Phys Anthropol 44:54-69, 2001. (C) 2001 Wiley-Liss, Inc.

8/3,AB/3 (Item 3 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2004 Inst for Sci Info. All rts. reserv.

12553933 References: 29

TITLE: Adaptation of influenza A viruses to cells expressing low levels of sialic acid leads to loss of neuraminidase activity
AUTHOR(S): Hughes MT; McGregor M; Suzuki T; Suzuki Y; Kawaoka Y (REPRINT)
AUTHOR(S) E-MAIL: kawaokay@svm.vetmed.wisc.edu
CORPORATE SOURCE: Univ Wisconsin, Dept Pathobiol Sci, 2015 Linden Dr
W/Madison//WI/53706 (REPRINT); Univ Wisconsin, Dept Pathobiol Sci,
/Madison//WI/53706; Univ Tennessee, Dept Pathol, /Memphis//TN/38163; Univ Shizouka, Dept Biochem, /Shizuoka 4228526//Japan/; Univ Tokyo, Inst Med

PUBLICATION TYPE: JOURNAL

Sci, /Tokyo 1088639//Japan/

PUBLICATION: JOURNAL OF VIROLOGY, 2001, V75, N8 (APR), P3766-3770

GENUINE ARTICLE#: 414QN

PUBLISHER: AMER SOC MICROBIOLOGY, 1752 N ST NW, WASHINGTON, DC 20036-2904

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ISSN: 0022-538X

LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: Influenza A viruses possess two virion surface proteins, hemagglutinin (HA) and neuraminidase (NA). The HA binds to sialyloligosaccharide viral receptors, while the NA removes sialic acids from the host cell and viral sialyloligosaccarides. Alterations of the HA occur during adaptation of influenza viruses to new host

species, as in the 1957 and 1968 influenza pandemics. To gain a better understanding of the contributions of the HA and possibly the NA to this process, we generated cell lines expressing reduced levels of the influenza virus receptor determinant, sialic acid, by selecting Madin-Darby canine kidney cells resistant to a lectin specific for sialic acid linked to galactose by alpha (2-3) or alpha (2-6) linkages, One of these cell lines had less than 1/10 as much N-acetylneuraminic acid as its parent cell line. When serially passaged in this cell line, human H3N2 viruses lost sialidase activity due to a large internal deletion in the NA gene, without alteration of the HA gene. These findings indicate that NA mutations can contribute to the adaptation of influenza A virus to new host environments and hence may play a role in the transmission of virus across species.

8/3,AB/4 (Item 4 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2004 Inst for Sci Info. All rts. reserv.

12110396 References: 57

25.6

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1. ... V. 15.

TITLE: Identification of polymorphonuclear leukocyte and HL-60 cell receptors for adhesins of Streptococcus gordonii and Actinomyces naeslundii

AUTHOR(S): Ruhl S; Cisar JO; Sandberg AL (REPRINT)

AUTHOR(S) E-MAIL: ann.sandberg@nih.gov

CORPORATE SOURCE: Bldg 45, Room 4AN-24A, /Bethesda//MD/20892 (REPRINT); Natl

Inst Dent & Craniofacial Res, NIH, /Bethesda//MD/20892

PUBLICATION TYPE: JOURNAL

PUBLICATION: INFECTION AND IMMUNITY, 2000, V68, N11 (NOV), P6346-6354

GENUINE ARTICLE#: 366LN

PUBLISHER: AMER SOC MICROBIOLOGY, 1752 N ST NW, WASHINGTON, DC 20036-2904

ISSN: 0019-9567

LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: Interactions of oral streptococci and actinomyces with polymorphonuclear leukocytes (PMNs), mediated by sialic acidand Gal/GalNAc-reactive adhesins, respectively, result in activation of the PMNs and thereby may contribute to the initiation of oral inflammation. Sialidase treatment of PMNs or HL-60 cells abolished adhesion of Streptococcus gordonii but was required for adhesion of Actinomyces naeslundii, The same effects of sialidase were noted for adhesion of these bacteria to a major 150-kDa surface glycoprotein of either PMNs or undifferentiated HL-60 cells and to a 130-kDa surface glycoprotein of differentiated HL-60 cells. These glycoproteins were both identified as leukosialin (CD43) by immunoprecipitation with a specific monoclonal antibody (MAb), Adhesion of streptococci and actinomyces to a 200-kDa minor PMN surface glycoprotein was also detected by bacterial overlay of untreated and sialidase-treated nitrocellulose transfers, respectively. This glycoprotein was identified as leukocyte common antigen (CD45) by immunoprecipitation with a specific MAb. CD43 and CD45 both possess extracellular mucinlike domains in addition to intracellular domains that are implicated in signal transduction, Consequently, the interactions of streptococci and actinomyces with the mucinlike domains of these mammalian cell surface glycoproteins result not only in

adhesion but, in addition, may represent the initial step in PMN activation by these bacteria.

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(Item 5 from file: 440) 8/3.AB/5DIALOG(R) File 440: Current Contents Search(R) (c) 2004 Inst for Sci Info. All rts. reserv. 10977090 References: 22 TITLE: Selection of receptor-binding variants of human influenza A and B viruses in baby hamster kidney cells. AUTHOR(S): Govorkova EA; Matrosovich MN; Tuzikov AB; Bovin NV; Gerdil C; Fanget B; Webster RG (REPRINT) AUTHOR(S) E-MAIL: Robert.Webster@stjude.org CORPORATE SOURCE: St Jude Childrens Res Hosp, Dept Virol & Mol Biol, 332 N Lauderdale St/Memphis//TN/38105 (REPRINT); St Jude Childrens Res Hosp, Dept Virol & Mol Biol, /Memphis//TN/38105; Russian Acad Med Sci, DI Ivanovskii Virol Inst, /Moscow 123098//Russia/; Russian Acad Med Sci, MP Chumakov Inst Poliomyelitis & Viral Encephalit, /Moscow 142782//Russia/; Russian Acad Sci, MM Shemyakin Bioorgan Chem Inst, /Moscow 117871//Russia/; Pasteur Merieux, Dept Pharmaceut Dev, /F-69280 Marcy Etolle//France/; Univ Tennessee, Dept Pathol, /Memphis//TN/38163 PUBLICATION TYPE: JOURNAL PUBLICATION: VIROLOGY, 1999, V262, N1 (SEP 15), P31-38 GENUINE ARTICLE#: 240DY PUBLISHER: ACADEMIC PRESS INC, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495 USA ISSN: 0042-6822 DOCUMENT TYPE: ARTICLE LANGUAGE: English

ABSTRACT: Cultivation of human influenza viruses in the allantoic cavity of embryonated chicken eggs leads to a selection of receptor-binding variants with amino acid substitutions on the globular head of the hemagglutinin (HA) molecule. Such selection can be avoided by growing the human viruses in Madin Darby canine kidney (MDCK) cells. In the present study, we tested whether baby hamster kidney (BHK) cells select receptor-binding mutants of human influenza viruses. After isolating H1N1, H3N2, and type B influenza Viruses from clinical samples in MDCK cells, we passaged them in either BHK cells or chicken eggs. The BHK-grown viruses differed from their MDCK-grown counterparts by virtue of mutations in the HA: 225 D --> G (H1N1 virus), 128T --> A and 2261 --> V (H3N2), and 187N --> D (type B). (H3 numbering). Variants with different substitutions were selected by passaging of the same MDCK-grown parents in eggs: 141L --> H, 208R --> H, and 225D --> G (H1N1), 194L --> 1 (H3N2), and 137G --> R (B). Compared with their MDCK-grown counterparts, both BHK- and egg-grown viruses possessed a higher affinity for the cellular membranes of BHK cells and of the chorioallantoic cells of chicken embryos and for a 3'-sialylgalactose-containing synthetic sialylglycopolymer. By contrast, changes in the affinity of mutants for a 6'-sialyl-(N-acetyllactosamine)-containing sialylglycopolymer varied from negative to positive. Fluorescence-activated cell-sorting analysis with linkage-specific lectins showed that the density of the 6'-sialy[-(N-acetyllactosamine)-containing receptors is substantially lower on the surface of BHK cells than on MDCK cells, providing an explanation for the growth restriction of human viruses in the former

cells. Our data demonstrate that cultures of BHK cells, like eggs, can select receptor-binding variants of human influenza viruses. (C) 1999 Academic Press.

8/3,AB/6 (Item 6 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
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10880544 References: 42

TITLE: trans-sialidase of Trypanosoma cruzi: Location of galactose-binding site(s)

AUTHOR(S): Chuenkova M (REPRINT); Pereira M; Taylor G

AUTHOR(S) E-MAIL: mtchou01@emerald.tufts.edu

CORPORATE SOURCE: Tufts Univ, Dept Pathol, 136 Harrison Ave/Boston//MA/02111 (REPRINT); Tufts Univ, Dept Pathol, /Boston//MA/02111; Univ Bath, Dept Biol & Biochem, /Bath BA2

7AY/Avon/England/

PUBLICATION TYPE: JOURNAL

PUBLICATION: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 1999, V 262, N2 (AUG 27), P549-556

GENUINE ARTICLE#: 232AF

PUBLISHER: ACADEMIC PRESS INC, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495

USA

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ISSN: 0006-291X

LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: Trypanosoma cruzi expresses a trans-sialidase on its surface, which catalyzes the transfer of sialic acid from mammalian host glycans to its own surface glycoproteins. It has been proposed that the enzyme consists of three domains prior to a long C-terminal repeating sequence that is not required for enzyme activity. The first of these domains shares significant sequence identity with bacterial sialidases which catalyse the hydrolysis of sialic acid. Here we report the sequence of the N-terminal domains of the TS19y trans-sialidase gene, which was expressed in bacteria with the same specific activity as natural enzyme of T. cruzi. Various deletion mutants of TS19y, without the C-terminal tandem repeat, have been cloned and expressed and their trans-sialidase and sialidase activities measured. These experiments show that all three N-terminal domains are required for full trans-sialidase activity, though only the first is necessary for sialidase activity. Some transferase activity is observed, however, even with the shortest construct comprising the first N-terminal domain. Deletion mutants to probe the role of the N-terminal residues of the first domain suggest that the first 33 residues are also required for trans-sialidase activity, but not for sialidase activity. Molecular modelling of the first N-terminal domain of TS19y based on our structures of bacterial sialidases and site-directed mutations suggests the location of a galactose-binding site within this domain. (C) 1999 Academic Press.

8/3,AB/7 (Item 7 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2004 Inst for Sci Info. All rts. reserv.

10324853 References: 60

TITLE: Cell-surface sialoglycoconjugate structures in wildtype and mutant Crithidia fasciculata AUTHOR(S): Matta MAD; Alviano DS (REPRINT); Couceiro JNDS; Nazareth M; Meirelles L; Alviano CS; Angluster J AUTHOR(S) E-MAIL: IMMGCEU@MICROBIO.UFRJ.BR CORPORATE SOURCE: Univ Fed Rio de Janeiro, Inst Microbiol Prof Paulo Goes, Bloco 1, Cidade Univ/BR-21944590 Rio De Janeiro//Brazil/ (REPRINT); Univ Fed Rio de Janeiro, Inst Microbiol Prof Paulo Goes, /BR-21944590 Rio De Janeiro//Brazil/; Fdn Oswaldo Cruz, Lab Ultraestrutura Celular, /BR-21045900 Rio De Janeiro//Brazil/ PUBLICATION TYPE: JOURNAL PUBLICATION: PARASITOLOGY RESEARCH, 1999, V85, N4 (APR), P293-299 GENUINE ARTICLE#: 170UY PUBLISHER: SPRINGER VERLAG, 175 FIFTH AVE, NEW YORK, NY 10010 USA ISSN: 0044-3255 DOCUMENT TYPE: ARTICLE LANGUAGE: English

ABSTRACT: The cell-surface expression of sialoglycoconjugate structures in wild-type Crithidia fasciculata and its TFRR1 drug-resistant mutant was analyzed with the aid of an influenza C virus strain, lectin, enzymatic treatment, and flow cytofluorimetry analysis probed with fluorescein isothiocyanate-labeled (FITC) lectins. 9-0-Acetyl-N-acetyl neuraminic acid (Neu5, 9Ac(2)) structures mediate influenza C virus cell-binding. The SA alpha 2,3Gal and SA alpha 2,6Gal sequences are specifically recognized by Maackia amurensis (MAA) and Sambucus nigra (SNA) lectins, respectively. On the basis of these parameters the TFRR1 mutant strain of C. fasciculata was found to contain exposed sialoglycoconjugates bearing Neu5,9Ac2 surface structures. After the removal of sialic acid residues by neuraminidase activity the marked increases in PNA (peanut agglutinin)-mediated agglutinating activity showed that those acidic units on C. fasciculata cells were glycosidically linked to D-galactose. The bond involves SA alpha 2,6Gal and SA alpha 2,3Gal linkages as suggested by the use of FITC-SNA and FITC-MAA lectins, respectively. Both SA alpha 2,3Gal and SA alpha 2,6Gal sequences were preferentially expressed by the TFRR1 mutant. The SA alpha 2,6 linkage markedly predominated. In the TFRR1 mutant, but not in wild-type cells, two distinct populations of cells were distinguished by reactivity with FITC-SNA, one of which was enriched with surface SA alpha 2,6Gal sequences. These diverse findings suggest that sialoglycoconjugate structures present on the flagellate surface may be associated with mutation and the cell growth cycle in C. fasciculata.

8/3,AB/8 (Item 8 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2004 Inst for Sci Info. All rts. reserv.

08275661 References: 35

والمراجع والمعطور

TITLE: Differences in **sialic** acid-galactose linkages in the chicken egg amnion and allantois influence human **influenza** virus receptor specificity and variant selection

AUTHOR(S): Ito T; Suzuki Y; Takada A; Kawamoto A; Otsuki K; Masuda H; Yamada M; Suzuki T; Kida H; Kawaoka Y (REPRINT)

CORPORATE SOURCE: ST JUDE CHILDRENS HOSP, DEPT VIROL & MOL BIOL, 332 N LAUDERDALE, POB 318/MEMPHIS//TN/38101 (REPRINT); ST JUDE CHILDRENS

HOSP, DEPT VIROL & MOL BIOL/MEMPHIS//TN/38101; HOKKAIDO UNIV, GRAD SCH VET MED, DEPT DIS CONTROL, MICROBIOL LAB/SAPPORO/HOKKAIDO 060/JAPAN/; TOTTORI UNIV, FAC AGR, DEPT VET PUBL HLTH/TOTTORI 680//JAPAN/; TOTTORI PREFECTURE INST HLTH,/TOTTORI 680//JAPAN/; SHIZUOKA UNIV, SCH PHARMACEUT SCI, DEPT BIOCHEM/SHIZUOKA 422//JAPAN/; UNIV TENNESSEE, DEPT PATHOL/MEMPHIS//TN/38163

PUBLICATION TYPE: JOURNAL

PUBLICATION: JOURNAL OF VIROLOGY, 1997, V71, N4 (APR), P3357-3362

GENUINE ARTICLE#: WM911

PUBLISHER: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW,

WASHINGTON, DC 20005-4171

ISSN: 0022-538X

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LANGUAGE: English DOCUMENT TYPE: ARTICLE

ABSTRACT: Human influenza viruses are more efficiently isolated by inoculating patient samples into the amniotic rather than the allantoic cavity of embryonated chicken eggs, This type of cultivation selects virus variants with mutations around the hemagglutinin (HA) receptor binding site. To understand the molecular basis of these phenomena, we investigated the abundances of sialic acid (SA) linked to galactose (Gal) by the alpha-2,3 linkage (SA alpha 2,3Gal) and SA alpha 2,6Gal in egg amniotic and allantoic cells and in Madin-Darby canine kidney (MDCK) cells, Using SA-Gal linkage-specific lectins (Maackia amurensis agglutinin specific for SA alpha 2,6Gal and Sambucus nigra agglutinin specific for SA alpha 2,3Gal), we found SA alpha 2,3Gal in both allantoic and amniotic cells and SA alpha 2,6Gal in only the amniotic cells, MDCK; cells contained both linkages, To investigate how this difference in abundances of SA alpha 2,3Gal and SA alpha 2,6Gal in allantoic and amniotic cells affects the appearance of host cell variants in eggs, we determined the receptor specificities and HA amino acid sequences of two different patient viruses which were isolated and passaged in the amnion or in the allantois and which were compared with MDCK cell grown viruses, We found that the viruses maintained high SA alpha 2,6Gal specificities when grown in MDCK cells or following up to two amniotic passages; however, further passages in either the amnion or allantois resulted in the acquisition of, or a complete shift to, SA alpha 2,3Gal specificity, depending on the virus strain. This change in receptor specificity was accompanied by the appearance of variants in the population with Leu-to Gln mutations at position 226 in their HA, These findings suggest that lack of SA alpha 2,6Gal linkages in the allantois of chicken eggs is a selective pressure for the appearance of host cell variants with altered receptor specificities and amino acid changes at position 226.

8/3,AB/9 (Item 9 from file: 440)
DIALOG(R)File 440:Current Contents Search(R)
(c) 2004 Inst for Sci Info. All rts. reserv.

07540329 References: 84
TITLE: STRUCTURAL BASIS OF LECTIN-CARBOHYDRATE RECOGNITION
AUTHOR(S): WEIS WI; DRICKAMER K

CORPORATE SOURCE: STANFORD UNIV, SCH MED, DEPT BIOL STRUCT/STANFORD//CA/94305 (Reprint); UNIV OXFORD, DEPT BIOCHEM, GLYCOBIOL INST/OXFORD OX1 30U//ENGLAND/

PUBLICATION: ANNUAL REVIEW OF BIOCHEMISTRY, 1996, V65, P441-473

GENUINE ARTICLE#: UV922

ISSN: 0066-4154

Paris .

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LANGUAGE: ENGLISH DOCUMENT TYPE: REVIEW

ABSTRACT: Lectins are responsible for cell surface sugar recognition in bacteria, animals, and plants. Examples include bacterial toxins; animal receptors that mediate cell-cell interactions, uptake of glycoconjugates, and pathogen neutralization; and plant toxins and mitogens. The structural basis for selective sugar recognition by members of all of these groups has been investigated by x-ray crystallography. Mechanisms for sugar recognition have evolved independently in diverse protein structural frameworks, but share some key features. Relatively low affinity binding sites for monosaccharides are formed at shallow indentations on protein surfaces. Selectivity is achieved through a combination of hydrogen bonding to the sugar hydroxyl groups with van der Waals packing, often including packing of a hydrophobic sugar face against aromatic amino acid side chains. Higher selectivity of binding is achieved by extending binding sites through additional direct and water-mediated contacts between oligosaccharides and the protein surface. Dramatically increased affinity for oligosaccharides results from clustering of simple binding sites in oligomers of the lectin polypeptides. The geometry of such oligomers helps to establish the ability of the lectins to distinguish surface arrays of polysaccharides in some instances and to crosslink glycoconjugates in others.

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8/3,AB/10 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
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01802044

18 human secreted proteins

18 sekretierte menschliche Proteine

18 proteines humaines secretees

PATENT ASSIGNEE:

Shi, Yanggu, 710 Suffield Drive, Gaithersburg Maryland 20878, (US) Young, Paul, 207 Beckwith Street, Gaithersburg Maryland 20878, (US) Ebner, Reinhard, 9906 Shelburne Terrace # 316, Gaithersburg Maryland 20878, (US)

Soppet, Daniel, R., 15050 Stillfield Place, Centreville, Virginia 22020, (US)

Ruben, Steven, M., 19420 Pyrite Lane, Brookeville, MD 20833, (US) LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE) PATENT (CC, No, Kind, Date): EP 1471072 Al 041027 (Basic)

APPLICATION (CC, No, Date): EP 2004012718 000815;

PRIORITY (CC, No, Date): US 148759 P 990816

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1212342 (EP 2000959237)

INTERNATIONAL PATENT CLASS: C07H-021/04; C07H-021/02; C07K-005/00;

C07K-014/00; C07K-016/00; C12Q-001/68; G01N-033/53; C12P-021/06; C12N-001/21; C12N-015/63

ABSTRACT EP 1471072 A1

The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

ABSTRACT WORD COUNT: 64

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Update Word Count Available Text Language 1165

CLAIMS A (English) 200444

(English) 200444 109901 SPEC A

Total word count - document A 111066

Total word count - document B

Total word count - documents A + B 111066

(Item 2 from file: 348) 8/3.AB/11

DIALOG(R) File 348: EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01789016

والمراجع يعير

Three-dimensional colorimetric assay assemblies Dreidimensionale kolorimetrische Testanordnungen Ensembles de dosage colorimetrique tridimensionnel PATENT ASSIGNEE:

The Regents of the University of California, (4664150), 22nd floor, 300Lakeside Drive, Oakland, CA 94162-3550, (US), (Applicant designated

INVENTOR:

Charych, Deborah, 915 Polk Street, Albany CA 94706, (US) Reichert, Anke, 704 Stannage, Albany CA 94706, (US)

LEGAL REPRESENTATIVE:

Murphy, Colm Damien et al (94181), Boult Wade Tennant, Verulam Gardens, 70 Gray's Inn Road, London WC1X 8BT, (GB)

PATENT (CC, No, Kind, Date): EP 1460423 A1 040922 (Basic)

APPLICATION (CC, No, Date): EP 2004001595 960213;

PRIORITY (CC, No, Date): US 389475 950213

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 809803 (EP 96906444)

INTERNATIONAL PATENT CLASS: G01N-033/53; G01N-033/543; G01N-033/544; G01N-033/545

ABSTRACT EP 1460423 A1

A direct assay is described using novel three-dimensional polymeric assemblies which change from a blue to red colour when exposed to an analyte, in one case a flu virus. The assemblies are typically in the form of liposomes which can be maintained in a suspension, and show great

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intensity in their colour changes. Their method of production is also
  described.
ABSTRACT WORD COUNT: 61
NOTE:
  Figure number on first page: NONE
LANGUAGE (Publication, Procedural, Application): English; English
FULLTEXT AVAILABILITY:
                                     Word Count
                           Update
Available Text Language
                           200439
                                      1218
      CLAIMS A (English)
                (English)
                           200439
                                      7670
      SPEC A
Total word count - document A
                                       8888
Total word count - document B
                                         0
Total word count - documents A + B
                                      8888
 8/3,AB/12
               (Item 3 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01704619
Primers for synthesizing full length cDNA clones and their use
Primer zur Synthese von vollstandigen cDNA Klonen und ihre Verwendung
Amorces pour la synthese de cADN de pleine longueur et leur utilisation
PATENT ASSIGNEE:
  Research Association for Biotechnology, (4189480), 3-9, Nishi-Shimbashi
    2-Chome, Minato-ku, Tokyo 105-0003, (JP), (Applicant designated States:
    all)
INVENTOR:
  Ota, Toshio, 1-2-7-105, Tsujido Shinmachi, Fujisawa-shi, Kanagawa
    251-0042, (JP)
  Nishikawa, Tetsuo, 27-3-403, Hikawa-cho, Itabashi-ku, Tokyo 173-0013,
  Isogai, Takao, 511-12, Ohmuro, Ami-machi, Inashiki-gun, Ibaraki 300-0303,
    (JP)
  Hayashi, Koji, 2-10-2-2-236, Sonehigashi-cho, Toyonaka-shi, Osaka
    561-0802, (JP)
  Ishii, Shizuko, 4508-19-202, Yana, Kisarazu-shi, Chiba 292-0812, (JP)
  Kawai, Yuri, 1-34-3, Mihara, Hakodate-shi, Hokkaido 041-0806, (JP)
  Wakamatsu, Ai, 1473-4-202, Takayanagi, Kisarazu-shi, Chiba 292-0014, (JP)
  Sugiyama, Tomoyasu, 5-4-3-512, Yokokawa, Sumida-ku, Tokyo 130-0035, (JP)
  Nagai, Keiichi, 3-44-14-9-204, Sakuragaoka, Higashiyamato-shi, Tokyo
    207-0022, (JP)
  Kojima, Shinichi, 3-16-18-A102, Higashiyamada, Tsuduki-ku, Yokohama-shi,
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  Otsuki, Tetsuji, 2-8-27-111, Tanido-cho, Nishitokyo, Tokyo 188-0001, (JP)
  Koga, Hisashi, 514-65, Nagashi, Kimitsu-shi, Chiba 292-1143, (JP)
LEGAL REPRESENTATIVE:
  VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)
                              EP 1396543 A2 040310 (Basic)
PATENT (CC, No, Kind, Date):
                              EP 1396543 A3
                                              040331
                              EP 2003025638 000707;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): JP 99194486 990708; JP 2000118774 000111; JP
    2000183765 000502
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
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RELATED PARENT NUMBER(S) - PN (AN):
  EP 1130094 (EP 2000114089)
INTERNATIONAL PATENT CLASS: C12N-015/12; C12N-015/10; C12N-015/85;
  C12N-005/10; C07K-014/47; C07K-016/18; C12Q-001/68
ABSTRACT EP 1396543 A3
    Primers for synthesizing full length cDNAs and their use are provided.
  830 cDNA encoding a human protein has been isolated and nucleotide
  sequences of 5'-, and 3'-ends of the cDNA have been determined.
  Furthermore, primers for synthesizing the full length cDNA have been
  provided to clarify the function of the protein encoded by the cDNA. The
  full length cDNA of the present invention containing the translation
  start site provides information useful for analyzing the functions of the
  protein.
ABSTRACT WORD COUNT: 79
NOTE:
  Figure number on first page: NONE
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                     Word Count
      CLAIMS A
               (English)
                           200411
                                       692
                                     99957
                (English)
                           200411
Total word count - document A
                                    100649
Total word count - document B
Total word count - documents A + B 100649
               (Item 4 from file: 348)
 8/3,AB/13
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01576828
ANTI-INFLUENZA DRUGS
GRIPPEMITTEL
MEDICAMENT CONTRE LA GRIPPE DE TYPE A
PATENT ASSIGNEE:
  Boehringer Ingelheim International GmbH, (291809), Postfach 200, 55216
    Ingelheim, (DE), (Applicant designated States: all)
  Techno Network Shikoku Co., Ltd., (4310570), 2-5, Marunouchi,
    Takamatsu-shi, Kagawa 760-0033, (JP), (Applicant designated States:
    all)
INVENTOR:
  KIDO, Hiroshi, c/o The University of Tokushima, 3-18-15, Kuramoto-Cho,
    Tokushima-Shi, Tokushima 770-0042, (JP)
LEGAL REPRESENTATIVE:
  Kompter, Hans-Michael, Dr. et al (72955), Boehringer Ingelheim GmbH, CD
    Patents, 55216 Ingelheim am Rhein, (DE)
PATENT (CC, No, Kind, Date):
                              EP 1437134 Al 040714 (Basic)
                              WO 2003020258 030313
                              EP 2002762982 020903; WO 2002JP8940
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): JP 2001267236 010904
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
  IE; IT; LI; LU; MC; NL; PT; SE; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: A61K-031/137; A61P-031/16; A61P-043/00
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ABSTRACT EP 1437134 A1

An anti-influenzal agent comprises, as an effective component, ambroxol, bromhexin or a pharmaceutically acceptable salt thereof. This agent is characterized in that it has an anti-influenzal effect through the promotion of the secretion of biological factors, which possess influenza virus-proliferation-inhibitory effect and are included in the fluid secreted in the respiratory tract. It is also characterized in that it can inhibit the influenza virus-proliferation in the respiratory tract through promoting the secretion of substances capable of inhibiting proteases in the respiratory tract, which induce the influenza virus infection, that it can inhibit the influenza virus-proliferation in the respiratory tract through promoting the secretion of mucosal immune substances or IgA and IgG and that it can inhibit any release of inflammatory cytokines in the respiratory tract. The present invention also relates to an agent for treating or preventing influenza virus-infectious diseases.

ABSTRACT WORD COUNT: 141

NOTE:

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Figure number on first page: 0001

LANGUAGE (Publication, Procedural, Application): English; English; Japanese FULLTEXT AVAILABILITY:

Available Text Language Update Word Count
CLAIMS A (English) 200429 238
SPEC A (English) 200429 8700

Total word count - document A 8938

Total word count - document B 0

Total word count - documents A + B 8938

8/3,AB/14 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01529391

A method for producing **influenza** hemagglutinin multivalent vaccines Methode fur die Produktion von multivalenten **Influenza** Hamagglutinin Vakzinen

Procede de production de vaccins antigrippaux polyvalents composes d'hemagglutinine PATENT ASSIGNEE:

MG-PMC, L.L.C., (2245190), Connaught Laboratories, Inc., Route 611, P.O. Box 187, Swiftwater, PA 18370, (US), (Applicant designated States: all)

Smith, Gale Eugene, 9 Turnberry Road, Wallingford, CT 06492, (US) Volvovitz, Franklin, 12 Indian Trail Road, Woodbridge, CT 06525, (US) Wilkinson, Bethanie E., 25 Joseph Circle, Higganum, CT 06441, (US) Yoznesensky, Andrei I., 15 Spruce Lane, West Hartford, CT 06107, (US) Hackett, Craig Stanway, 94 Kondracki Lane, Wallingford, CT 06492, (US) LEGAL REPRESENTATIVE:

Harding, Charles Thomas (70742), D. Young & Co. 21 New Fetter Lane, London EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 1275726 A2 030115 (Basic)

EP 1275726 A3 030226 APPLICATION (CC, No, Date): EP 2002076629 950526;

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: LT

RELATED PARENT NUMBER(S) - PN (AN):

EP 833933 (EP 95922133)

INTERNATIONAL PATENT CLASS: C12N-015/86

ABSTRACT EP 1275726 A2

A method of preparing a recombinant influenza vaccine using DNA technology is provided. The resulting vaccine is a multivalent, preferably trivalent, influenza vaccine based on a mixture of recombinant hemagglutinin antigens cloned from influenza viruses having epidemic potential. The recombinant hemagglutinin antigens are full length, uncleaved (HAO), glycoproteins produced from baculovirus expression vectors in cultured insect cells and purified under non-denaturing conditions. In the preferred embodiment, the cloned HA genes are then modified by deletion of the natural hydrophobic signal peptide sequences and replacing them with a new baculovirus chitinase signal peptide. A general approach for the efficient extraction and purification of recombinant HA protein produced in insect cells is also disclosed for the purification of rHA proteins from A sub-types and B type influenza viruses.

ABSTRACT WORD COUNT: 127

NOTE:

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Figure number on first page: 1

LANGUAGE (Publication, Procedural, Application): English; English; English; FULLTEXT AVAILABILITY:

Available Text Language Word Count Update 200303 158 CLAIMS A (English) 200303 14050 SPEC A (English) 14208 Total word count - document A Total word count - document B n Total word count - documents A + B 14208

8/3,AB/15 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01446343

Self-assembling polynucleotide delivery system
Selbst zusammenbaubares system zur verabreichung von polynukleotiden
SYSTEME DE LIVRAISON D'UN POLYNUCLEOTIDE A ASSEMBLAGE AUTONOME
PATENT ASSIGNEE:

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, (221072), 300 Lakeside Drive, 22nd Floor, Oakland, California 94612-3550, (US), (Applicant designated States: all)

INVENTOR:

Szoka, Francis C., Jr., 45 Mendosa Avenue, San Francisco CA 94116, (US) Haensler, Jean, Aventis Pasteur SA, Campus Merieux, 1541, Avenue Marcel Merieux, 69280 Marcy L'Etoile, (FR)

LEGAL REPRESENTATIVE:

Thiel, Christian, Dr. Dipl.-Chem. (57845), Schneiders & Behrendt Rechtsund Patentanwalte Huestrasse 23 (Westfalenbankgebaude), 44787 Bochum, (DE)

EP 1236473 A2 020904 (Basic) PATENT (CC, No, Kind, Date): EP 1236473 A3 030115 EP 2002001408 930405; APPLICATION (CC, No, Date): PRIORITY (CC, No, Date): US 864876 920403; US 913669 920714 DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE RELATED PARENT NUMBER(S) - PN (AN): EP 636028 (EP 93909508) INTERNATIONAL PATENT CLASS: A61K-038/02; A61K-047/00; C07F-009/10 ABSTRACT EP 1236473 A2 This invention provides a self-assembling polynucleotide delivery system comprising components aiding in the delivery of the polynucleotide to the desired address which are associated via noncovalent interactions with the polynucleotide. The components of this system include DNA-masking components, cell recognition components, charge-neutralization and membrane-permeabilization components, and subcellular localization components. Specific compounds useful in this system are also provided. ABSTRACT WORD COUNT: 59 NOTE: Figure number on first page: NONE LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Update Word Count Available Text Language 200236 CLAIMS A (English) 188 12065 SPEC A (English) 200236 Total word count - document A 12253 Total word count - document B Total word count - documents A + B 12253 (Item 7 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS (c) 2004 European Patent Office. All rts. reserv. Cellular and serum protein anchors and conjugates Zell- und Serum-Proteinanker und Konjugate Proteine serique et cellulaire d'ancrage et conjugues PATENT ASSIGNEE: Conjuchem, Inc., (1943478), 225 President-Kennedy, Bureau 3950, Montreal, Quebec H2X 3Y8, (CA), (Applicant designated States: all) Pouletty, Phillipe, 3 O'Dell Place, Atherton, California 94027, (US) Pouletty, Phillipe, 3 O'Dell Place, Atherton, California 94027, (US) LEGAL REPRESENTATIVE: Sutcliffe, Nicholas Robert et al (98861), Mewburn Ellis, York House, 23 Kingsway, London WC2B 6HP, (GB) PATENT (CC, No, Kind, Date): EP 1216714 A1 020626 (Basic) APPLICATION (CC, No, Date): EP 2001129699 940916; APPLICATION (CC, No, Date): PRIORITY (CC, No, Date): US 137821 931015; US 237346 940503 DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE RELATED PARENT NUMBER(S) - PN (AN):

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Searcher :

571-272-2528

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EP 793506 (EP 94930447) INTERNATIONAL PATENT CLASS: A61K-047/48

ABSTRACT EP 1216714 A1

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Novel bifunctional reagents useful in providing extended in vivo lifetimes of physiologically active agents are provided. The reagents comprise conjugates of a first binding member specific for a target in a mammalian host, such as a toxin, drug of abuse, microbe, autoreactive immune cell, infected or tumourous cell, antigen presenting cell, or the like, joined to a second binding member specific for a long-lived blood component, including cells, such as an erythrocyte, platelet or endothelial cell, and plasma proteins. These conjugates find use by extending the lifetime and availability of the target binding member for coupling the target and the blood component and thereby reducing the concentration free target, modulating the volume of distribution of the target, targeting the target to sites of enhanced immune response, facilitating target clearance from the bloodstream, or extending the stimulation of an immunogen.

ABSTRACT WORD COUNT: 140

LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count
CLAIMS A (English) 200226 343
SPEC A (English) 200226 12076

Total word count - document A 12419

Total word count - document B 0

Total word count - documents A + B 12419

8/3,AB/17 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01432850

Recombinant vectors for producing HCV envelope proteins Rekombinante Vektoren zur Herstellung von HCV Hullproteinen Vecteurs recombinants pour la production de proteines d'enveloppe de HCV PATENT ASSIGNEE:

Innogenetics N.V., (713148), Industriepark Zwijnaarde 7 Box 4, 9052
Zwijnaarde, (BE), (Applicant designated States: all)
INVENTOR:

Maertens, Geert, Zilversparrenstraat 64, 8310 Brugge, (BE)

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De Martynoff, Guy, Mattotstraat 71, 1410 Waterloo, (BE)

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LEGAL REPRESENTATIVE:

De Clercq, Ann et al (87754), De Clercq, Brants & Partners, Edgard Gevaertdreef 10a, 9830 Sint-Martens-Latem, (BE)

PATENT (CC, No, Kind, Date): EP 1211315 A1 020605 (Basic)

APPLICATION (CC, No, Date): EP 2002003643 950731;

PRIORITY (CC, No, Date): EP 94870132 940729

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 721505 (EP 95930434)

INTERNATIONAL PATENT CLASS: C12N-015/40; C12N-005/10; C07K-014/18; A61K-039/29; G01N-033/569

ABSTRACT EP 1211315 A1

The present invention relates to a recombinant vectors encoding an HCV envelope El and/or E2 and/or E1/E2 protein encoding sequence. The invention also relates to recombinant nucleic acids comprising said HCV protein encoding sequences. The invention further relates to host cells transformed with said recombinant vectors, as well as recombinant HCV proteins expressed by said host cells and use thereof in diagnostic methods or kits or therapeutic or prophylactic methods of treatment of HCV or HCV vaccine compositions.

ABSTRACT WORD COUNT: 79

NOTE:

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. . . باريخيج

Figure number on first page: NONE

LANGUAGE (Publication, Procedural, Application): English; English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 200223 1905

SPEC A (English) 200223 23297

Total word count - document A 25202
Total word count - document B 0

Total word count - documents A + B 25202

8/3,AB/18 (Item 9 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01372888

NOVEL COLLECTINS

NEUE COLLECTINE

NOUVELLES COLLECTINES

PATENT ASSIGNEE:

FUSO PHARMACEUTICAL INDUSTRIES LTD., (1209242), 7-10, Doshomachi 1-chome, Chuo-ku, Osaka-shi, Osaka 541-0045, (JP), (Applicant designated States: all)

INVENTOR:

WAKAMIYA, Nobutaka, 1-4, Toko-Gojo 10-chome, Asahikawa-shi, Hokkaido 078-8345, (JP)

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OHTANI, Katsuki, SK Hights B, 2-8 Kamui-Nijo 8-chome, Asahikawa-shi Hokkaido 070-8012, (JP)

SAKAMOTO, Takashi, 1138, Shiba, Sakurai-shi, Nara 633-0074, (JP) KISHI, Yuichiro, 5-53-4, Fukiya-cho, Wakayama-shi, Wakayama 640-8324, (JP)

LEGAL REPRESENTATIVE:

Webber, Philip Michael et al (83441), Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 1283214 A1 030212 (Basic)

WO 2001081401 011101

APPLICATION (CC, No, Date): EP 2001922014 010423; WO 2001JP3468 010423 PRIORITY (CC, No, Date): JP 2000120358 000421 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;

```
LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: C07K-014/47; C12N-015/12; C12P-021/02;
  A01K-067/027; C07K-016/18; G01N-033/53
ABSTRACT EP 1283214 A1
    Provided are isolated collectin (CL-L2s) genes including a base
  sequence set out in SEQ ID NO: 1, 3, 5, 7, 9, 12, 36, 38 or 40 relating
  to a novel collectin which are expected to exhibit an antibacterial
  activity, an antiviral activity and the like particularly in a human
  body; and isolated collectin proteins including an amino acid sequence
  set out in SEQ ID NO: 2, 4, 6, 8, 10, 13, 37, 39 or 41 and derivatives
  and fragments thereof.
ABSTRACT WORD COUNT: 81
NOTE:
  Figure number on first page: 0004
LANGUAGE (Publication, Procedural, Application): English; English; Japanese
FULLTEXT AVAILABILITY:
                           Update
                                     Word Count
Available Text Language
                           200307
      CLAIMS A (English)
                                      2603
                (English) 200307
                                     20282
      SPEC A
                                     22885
Total word count - document A
Total word count - document B
Total word count - documents A + B
                                     22885
               (Item 10 from file: 348)
 8/3, AB/19
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01326443
Cellular and serum protein anchors and conjugates
Zell- und Serum- proteinanker und Konjugate
Proteine serique et cellulaire d'ancrage et conjugues
PATENT ASSIGNEE:
  ConjuChem, Inc., (1943475), 1801 de Maisonneuve Blvd, Suite 810,
    Montreal, Quebec, (CA), (Applicant designated States: all)
INVENTOR:
  Pouletty, Philippe, 3 O'Dell Place, Atherton, CA 94027, (US)
  Pouletty, Christine, 3 O'Dell Place, Atherton, CA 94027, (US)
LEGAL REPRESENTATIVE:
  Walton, Sean Malcolm et al (77071), MEWBURN ELLIS, York House, 23
    Kingsway, London WC2B 6HP, (GB)
PATENT (CC, No, Kind, Date): EP 1132097 A2
                                              010912 (Basic)
                                              011128
                              EP 1132097 A8
                              EP 1132097 A3 020206
                              EP 2001107561 940916;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 137821 931015; US 237346 940503
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
  NL; PT; SE
RELATED PARENT NUMBER(S) - PN (AN):
  EP 793506 (EP 94930447)
INTERNATIONAL PATENT CLASS: A61K-047/48
ABSTRACT EP 1132097 A2
    Novel bifunctional reagents useful in providing extended in vivo
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Ser. 19

lifetimes of physiologically active agents are provided. The reagents comprise conjugates of a first binding member specific for a target in a mammalian host, such as a toxin, drug of abuse, microbe, autoreactive immune cell, infected or tumourous cell, antigen presenting cell, or the like, joined to a second binding member specific for a longlived blood component, including cells, such as an erythrocyte, platelet or endothelial cell, and plasma proteins. These conjugates find use by extending the lifetime and availability of the target binding member for coupling the target and the blood component and thereby reducing the concentration free target, modulating the volume of distribution of the target, targeting the target to sites of enhanced immune response, facilitating target clearance from the bloodstream, or extending the stimulation of an immunogen.

ABSTRACT WORD COUNT: 140

LANGUAGE (Publication, Procedural, Application): English; English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count
CLAIMS A (English) 200137 285
SPEC A (English) 200137 12074
Total word count - document A 12359
Total word count - document B 0
Total word count - documents A + B 12359

8/3,AB/20 (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01322386

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. در چارچا<u>ن چین</u>و

... سار <u>به نعیش</u>ه

Primers for synthesizing full length cDNA clones and their use Primer zur Synthese von vollstandigen cDNA Klonen und ihre Verwendung Amorces pour la synthese de cADN de pleine longueur et leur utilisation PATENT ASSIGNEE:

Helix Research Institute, (2656450), 1532-3 Yana, Kisarazu-shi, Chiba 292-0812, (JP), (Applicant designated States: all) INVENTOR:

Ota, Toshio, 1-2-7-105, Tsujido Shinmachi, Fujisawa-shi, Kanagawa 251-0042, (JP)

Nishikawa, Tetsuo, 27-3-403, Hikawa-cho, Itabashi-ku, Tokyo 173-0013, (JP)

Isogai, Takao, 511-12, Ohmuro, Ami-machi, Inashiki-gun, Ibaraki 300-0303, (JP)

Hayashi, Koji, 1-9-446, Yushudai Nishi, Ichihara-shi, Chiba 299-0125, (JP)

Ishii, Shizuko, 4508-19-202, Yana, Kisarazu-shi, Chiba 292-0812, (JP) Kawai, Yuri, 4508-19-201, Yana, Kisarazu-shi, Chiba 292-0812, (JP) Wakamatsu, Ai, 1473-4-202, Takayanagi, Kisarazu-shi, Chiba 292-0014, (JP) Sugiyama, Tomoyasu, 2-6-23-102, Kiyomidai, Kisarazu-shi, Chiba 292-0045, (JP)

Nagai, Keiichi, 3-44-14-9-204, Sakuragaoka, Higashiyamato-shi, Tokyo 207-0022, (JP)

Kojima, Shinichi, 2-7-10-202, Gion, Kisarazu-shi, Chiba 292-0052, (JP) Otsuki, Tetsuji, 3-1-10-B102, Asahi, Kisarazu-shi, Chiba 292-0055, (JP) Koga, Hisashi, 2-4-15, Asahi, Kisarazu-shi, Chiba 292-0055, (JP) LEGAL REPRESENTATIVE:

```
VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1130094 A2 010905 (Basic)
                              EP 1130094 A3 011121
                              EP 2000114089 000707;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): JP 99194486 990708; JP 2000118774 000111; JP
    2000183765 000502
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
RELATED DIVISIONAL NUMBER(S) - PN (AN):
     (EP 2003025638)
INTERNATIONAL PATENT CLASS: C12N-015/12; C12N-015/11; C12N-015/10;
  C12N-015/70; C12N-015/85; C12N-005/10; C12N-001/21; C07K-014/47;
  C07K-016/18; C12Q-001/68
ABSTRACT EP 1130094 A2
    Primers for synthesizing full length cDNAs and their use are provided.
    830 cDNA encoding a human protein has been isolated and nucleotide
  sequences of 5'-, and 3'-ends of the cDNA have been determined.
  Furthermore, primers for synthesizing the full length cDNA have been
  provided to clarify the function of the protein encoded by the cDNA. The
  full length cDNA of the present invention containing the translation
  start site provides information useful for analyzing the functions of the
  protein.
ABSTRACT WORD COUNT: 79
NOTE:
  Figure number on first page: 1
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
                                       709
      CLAIMS A (English) 200136
                (English) 200136
                                     97667
      SPEC A
                                     98376
Total word count - document A
Total word count - document B
Total word count - documents A + B
                                     98376
 8/3, AB/21
               (Item 12 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01322318
Composition comprising membrane virus subviral target and fusion particles
    and vaccine comprising said composition
                                                    Partikel
                                                                enthaltende
                               Fusion-subvirale
               Ziel-
                        und
    Zusammensetzung und diese enthaltende Impstoff
Composition comprenant des particules sous-virales cibles et fusions de
    virus enveloppes, et vaccin la contenant
PATENT ASSIGNEE:
  Deutsches Krebsforschungszentrum Stiftung des offentlichen Rechts,
    (577160), Im Neuenheimer Feld 280, 69120 Heidelberg, (DE), (Applicant
    designated States: all)
INVENTOR:
  Bosch, Valerie, Dr., Flussgasse 12, 69245 Bammental, (DE)
  Sparacio, Sandra, Wasserturmstr. 39, 69214 Eppelheim, (DE)
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12 C

Zeilfelder, Udo, Lowenstr.1, 68259 Mannheim, (DE) Pfeiffer, Tanya, Goethestr. 36, 69221 Dossenheim, (DE) Henzler, Tanya, Kuhler Grund 22, 69126 Heidelberg, (DE) LEGAL REPRESENTATIVE: Schussler, Andrea, Dr. (80502), Kanzlei Huber & Schussler Truderinger Strasse 246, 81825 Munchen, (DE) PATENT (CC, No, Kind, Date): EP 1130089 A1 010905 (Basic) APPLICATION (CC, No, Date): EP 2000103242 000217; DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: C12N-007/04; A61K-039/21; C07K-014/705; C07K-014/715; C07K-014/16 ABSTRACT EP 1130089 A1 Described is a composition of membrane virus subviral particles, preferably retrovirus-like, more preferably HIV-like subparticles, comprising (a) an env-defective, at least one cellular receptor and at least one coreceptor containing membrane virus target particle encoded by an env-defective membrane virus particle encoding vector construct, at least one cellular receptor encoding vector(s) and at least one coreceptor encoding vector(s) and (b) a membrane virus fusion particle encoded by an env-defective membrane virus particle encoding vector construct and an env-encoding vector, wherein said composition of membrane virus subviral particles is capable of inter-membrane virus particle membrane fusion resulting in the formation of membrane-virus particles. Also described is a vaccine comprising the composition of the present invention. ABSTRACT WORD COUNT: 115 NOTE: Figure number on first page: 1 LANGUAGE (Publication, Procedural, Application): English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS A (English) 200136 349 (English) 200136 5596 SPEC A Total word count - document A 5945 Total word count - document B n Total word count - documents A + B 5945 (Item 13 from file: 348) 8/3, AB/22 DIALOG(R) File 348: EUROPEAN PATENTS (c) 2004 European Patent Office. All rts. reserv. 01292075 Production of vaccines Vakzinproduktion Production de vaccins PATENT ASSIGNEE: Crucell Holland B.V., (3178570), Archimedesweg 4, 2333 CN Leiden, (NL), (Applicant designated States: all) INVENTOR: Pau, Maria Grazia, Bargelaan 80, 2333 CW Leiden, (NL) Uytdehaag, Alphonsus Gerardus Cornelius Maria, Generalperenlaan 20, 3452

<u>ب بايد</u>ي

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EH Vleuten, (NL)

Schouten, Govert Johan, Maria van Hongarijelaan 27, 2353 EM Leiderdorp, (NL)

LEGAL REPRESENTATIVE:

Klein, Bart et al (80366), Crucell Holland B.V., Intellectual Property Department, P.O. Box 2048, 2300 CA Leiden, (NL)

PATENT (CC, No, Kind, Date): EP 1108787 A2 010620 (Basic) EP 1108787 A3 010829

APPLICATION (CC, No, Date): EP 2000204190 001124;

PRIORITY (CC, No, Date): EP 99203983 991126

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C12N-015/34; C12N-005/10; C07K-014/11; C07K-014/075; C12N-015/85; C12N-007/02; A61K-039/145

ABSTRACT EP 1108787 A2

Novel means and methods are provided for the production of mammalian viruses, comprising infecting a culture of immortalized human cells with the virus, incubating the culture infected with virus to propagate the virus under conditions that permit growth of the virus, and to form a virus-containing medium, and removing the virus-containing medium.

The viruses can be harvested and be used for the production of vaccines.

Advantages - human cells of the present invention can be cultured under defined serum free conditions, and the cells show improved capability for propagating virus.

In particular, methods are provided for producing in cultured human cells Influenza virus and vaccines derived thereof. This method eliminates the necessity to use whole chicken embryos for the production of Influenza vaccines.

The method provides also for the continuous or batchwise removal of culture media. As such, the present invention allows the large scale continuous production of viruses to a high titer.

ABSTRACT WORD COUNT: 154

NOTE:

- C

Figure number on first page: NONE

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Word Count Available Text Language Update

200125 1142 CLAIMS A (English)

(English) 200125 12523 SPEC A

13665 Total word count - document A

Total word count - document B

Total word count - documents A + B 13665

8/3, AB/23 (Item 14 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01270888

NOVEL YEAST VARIANTS AND PROCESS FOR PRODUCING GLYCOPROTEIN CONTAINING MAMMALIAN TYPE SUGAR CHAIN

> 571-272-2528 Searcher : Shears

HEFEVARIANTEN UND VERFAHREN ZUR HERSTELLUNG VON GLYKOPROTEIN ENTHALTENDEN ZUCKERKETTEN VOM SAUGETIERTYP NOUVELLES VARIANTES DE LEVURE ET PROCEDE DE PRODUCTION DE GLYCOPROTEINE PATENT ASSIGNEE: KIRIN BEER KABUSHIKI KAISHA, (579945), 10-1, Shinkawa 2-chome, Chuo-ku, Tokyo 104-8288, (JP), (Applicant designated States: all) National Institute of Advanced Industrial Science and Technology, (3298251), 3-1, Kasumigaseki 1-chome, Chiyoda-ku, Tokyo 100-8921, (JP), (Applicant designated States: all) **INVENTOR:** Chiba, Yasunori, Kiban Gijutsu Kenkyusho, Kirin Beer K.K., 1-13-5, Fukuura, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004, (JP) Kainuma, Mami, Kiban Gijutsu Kenkyusho, Kirin Beer K.K., 1-13-5, Fukuura, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004, (JP) Takeuchi, Makoto, Kiban Gijutsu Kenkyusho, Kirin Beer K.K., 1-13-5, Fukuura, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004, (JP) Kawashima, Nagako, Kiban Gijutsu Kenkyusho, Kirin Beer K.K., 1-13-5, Fukuura, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004, (JP) Yoshida, Satoshi, Kiban Gijutsu Kenkyusho, Kirin Beer K.K., 1-13-5, Fukuura, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004, (JP) Yamano, Shigeyuki, Kiban Gijutsu Kenkyusho, Kirin Beer K.K., 1-13-5, Fukuura, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004, (JP) Jigami, Yoshifumi, 3-24-2 Chuo, Ushiku-shi, Ibaraki 300-1234, (JP) Ishii, Tomoko, 1055-588, Shimohirooka, Tsukuba-shi, Ibaraki 305-0042, (JP) Shimma, Yoh-ichi, 1-408-301, Azuma, Tsukuba-shi, Ibaraki 305-0031, (JP) LEGAL REPRESENTATIVE: HOFFMANN - EITLE (101511), Patent- und Rechtsanwalte Arabellastrasse 4, 81925 Munchen, (DE) PATENT (CC, No, Kind, Date): EP 1211310 A1 020605 (Basic) WO 200114522 010301 EP 2000953436 000816; WO 2000JP5474 APPLICATION (CC, No, Date): PRIORITY (CC, No, Date): JP 99233215 990819 DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: C12N-001/19; C12P-021/02; C12N-1:19; C12R-1:865 ; C12P-21:02; C12R-1:865 ABSTRACT EP 1211310 A1 Provided are novel yeast mutants capable of producing a glycoprotein in which a sugar chain, having a sugar chain structure identical to that of a sugar chain produced from mammalian cells, is attached to an asparagine residue of a protein; and a process for producing the sugar chain and the glycoprotein by a glycoengineering technique using the mutants. The newly-bred auxotrophic triple mutant and auxotrophic quadruple mutant of the present invention can produce a large quantity of high purity neutral sugar chains identical to the high mannose type sugar chains produced from human and other mammalian cells and glycoproteins having the neutral sugar chains. Also, introduction of genes for biosynthesis of a mammalian type sugar chain into the mutants enables efficient production of a mammalian type sugar chain of high-mannose type, hybrid-type, complex-type, etc. or a protein having the mammalian type

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sugar chain.

ABSTRACT WORD COUNT: 144

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NOTE:
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2.4

Figure number on first page: NONE

LANGUAGE (Publication, Procedural, Application): English; English; Japanese FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 200223 1326 SPEC A (English) 200223 16186

Total word count - document A 17512
Total word count - document B 0

Total word count - documents A + B 17512

8/3,AB/24 (Item 15 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01218550

INFLUENZA VIRUS HEMAGGLUTININ-BINDING PEPTIDES SICH AN DAS HAMAGGLUTININ DES INFLUENZAVIRUS BINDENDES PEPTID PEPTIDES SE LIANT A L'HEMAGGLUTININE DU VIRUS DE LA GRIPPE PATENT ASSIGNEE:

OTSUKA PHARMACEUTICAL CO., LTD., (304161), 9, Kandatsukasa-cho 2-chome, Chiyoda-ku Tokyo 101-8535, (JP), (Applicant designated States: all) INVENTOR:

SATO, Toshinori, 5-4-5-407, Tsunashima Higashi, Kohoku-ku, Yokohama-shi, Kanagawa 223-0052, (JP)

ISHIKAWA, Dai, 3-1-7-102, Kasuga, Tokushima-shi, Tokushima 770-0002, (JP) TANAKA, Michinori, 42-13, Chidorigahama, Sumiyoshi, Aizumi-cho, Itano-gun, Tokushima 771-1265, (JP)

OGINO, Koichi, 197-3, Aza Higashihama, Minamihama, Muya-cho, Naruto-shi, Tokushima 772-0003, (JP)

TAKI, Takao, 8-4, Aza Sanomiya, Ejiri, Kitajima-cho, Itano-gun, Tokushima 221-0205, (JP)

LEGAL REPRESENTATIVE:

HOFFMANN - EITLE (101511), Patent- und Rechtsanwalte Arabellastrasse 4, 81925 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1167382 Al 020102 (Basic) WO 200059932 001012

APPLICATION (CC, No, Date): EP 2000911385 000327; WO 2000JP1867 000327 PRIORITY (CC, No, Date): JP 9991962 990331

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: C07K-007/08; C07K-016/28; A61K-031/00; A61K-038/00

ABSTRACT EP 1167382 A1

In accordance with this invention there is provided an influenza virus hemagglutinin-binding peptide having any of the amino acid sequences defined under SEQ ID NO:1 to NO:11. This peptide binds specifically to the hemagglutinin associated with the first step of influenza virus infection to prevent binding of the virus to the host receptor and, as such, finds application as a prophylactic drug for influenza virus infection or a therapeutic drug for influenza

ABSTRACT WORD COUNT: 73

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Sec. 2.

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NOTE:
  Figure number on first page: NONE
LANGUAGE (Publication, Procedural, Application): English; English; Japanese
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                     Word Count
      CLAIMS A (English) 200201
                                       669
                (English) 200201
                                     12440
      SPEC A
Total word count - document A
                                     13109
Total word count - document B
Total word count - documents A + B
                                     13109
 8/3,AB/25
               (Item 16 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01014587
P-SELECTIN TRANSLOCATION TO VASCULAR EPITHELIAL LUMEN BY IONIZING RADIATION
P-SELECTIN TRANSLOKATION INS VASKULARE EPITHELIALE LUMEN DURCH IONISIERENDE
    STRAHLUNG
TRANSLOCATION DE P-SELECTINE DANS LA LUMIERE VASCULAIRE EPITHELIALE PAR
    RAYONNEMENT IONISANT
PATENT ASSIGNEE:
  ARCH DEVELOPMENT CORPORATION, (995433), 1101 East 58th Street, The
    University of Chicago, Chicago, Illinois 60637, (US), (Proprietor
    designated states: all)
INVENTOR:
  HALLAHAN, Dennis, E., 4214 Estes Road, Nashville, TN 37215, (US)
  VIRUDACHALAM, Subbulakshmi, 8757 Bronson Drive, Granite Bay, CA 95746,
    (US)
LEGAL REPRESENTATIVE:
  Gowshall, Jonathan Vallance et al (61531), FORRESTER & BOEHMERT
    Pettenkoferstrasse 20-22, 80336 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 986401 A1
                                            000322 (Basic)
                              EP 986401 B1
                                            040225
                              WO 1998053852 981203
                              EP 98937941 980529; WO 98US10913 980529
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 48141 P 970530
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: A61K-041/00; A61K-047/48; A61K-048/00;
  A61K-051/04; A61K-051/06; A61K-051/10
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language Update
                                     Word Count
                          200409
                                      1583
      CLAIMS B (English)
                           200409
                                      1602
      CLAIMS B
                 (German)
                          200409
      CLAIMS B
                 (French)
                                      1861
      SPEC B
                (English) 200409
                                     49574
Total word count - document A
                                     54620
Total word count - document B
Total word count - documents A + B
                                     54620
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Sec. 25.

المراجع المراجع

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8/3, AB/26
               (Item 17 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00923786
TWO-STEP IMMUNIZATION PROCEDURE AGAINST THE PYRAMYXOVIRIDAE FAMILY OF
    VIRUSES USING ATTENUATED VIRAL STRAINS AND SUBUNIT PROTEIN PREPARATION
IMMUNISIERUNGSVERFAHREN IN ZWEI SCHRITTEN GEGEN PYRAMYXOVIRIDAE-VIREN
    UNTER VERWENDUNG ABGESCHWACHTER VIRALER STAMME UND PREPARATION VON
    PROTEINUNTEREINHEITEN
             D'IMMUNISATION
                               EN
                                     DEUX
                                             ETAPES
                                                      CONTRE
                                                               T.A
                                                                    FAMILLE
    PYRAMYXOVIRIDAE DE VIRUS A L'AIDE DE SOUCHES VIRALES ATTENUEES ET
    D'UNE PREPARATION PROTEIQUE DE SOUS-UNITES
PATENT ASSIGNEE:
  Aventis Pasteur Limited, (3092160), 1755 Steeles Avenue West, Toronto,
    Ontario M2R 3T4, (CA), (Proprietor designated states: all)
  THE REGENTS OF THE UNIVERSITY OF MICHIGAN, (1929031), 3003 S. State
    Street,, Ann Arbor Mi 48109-8202, (US), (Proprietor designated states:
INVENTOR:
  KLEIN, Michel, H., 16 Munro Boulevard, Willowdale, Ontario M2P 1B9, (CA)
  CATES, George, A., 37 Pemberton Road, Richmond Hill, Ontario L4C 3T5,
  EWASYSHYN, Mary, E., Apartment 1506 120 Torresdale, Willowdale, Ontario
    M2R 3N7, (CA)
  HERLOCHER, M., Louise, 2142 Spruce Way Lane, Ann Arbor, MI 48103, (US)
  MAASSAB, H., F., 2446 Shannondale Drive, Ann Arbor, MI 48104, (US)
LEGAL REPRESENTATIVE:
  Williams, Richard Andrew Norman et al (77491), Hepworth Lawrence Bryer &
    Bizley Merlin House Falconry Court Bakers Lane, Epping, Essex CM16 5DQ,
PATENT (CC, No, Kind, Date): EP 936921 A1 990825 (Basic)
                              EP 936921 B1 030319
                              WO 98002180 980122
                              EP 97930276 970711; WO 97CA499
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 679206 960712
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
  MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; RO; SI
INTERNATIONAL PATENT CLASS: A61K-039/155
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
               (English)
                           200312
                                       336
      CLAIMS B
                           200312
                                       360
      CLAIMS B
                 (German)
                           200312
                                       354
      CLAIMS B
                 (French)
                (English)
                          200312
                                      5604
      SPEC B
Total word count - document A
Total word count - document B
                                      6654
Total word count - documents A + B
                                      6654
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Searcher: Shears 571-272-2528

(Item 18 from file: 348)

8/3,AB/27

رارات والمحت

بريا ويعزز

00760018

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DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00862554
THERAPEUTIC AND DIAGNOSTIC AGENTS FOR THE TREATMENT OF MICROBIAL INFECTIONS
THERAPEUTISCHE UND DIAGNOSTISCHE AGENZIEN ZUR BEHANDLUNG MIKROBIELLER
    INFEKTIONEN
        THERAPEUTIQUES ET DE DIAGNOSTIC POUR TRAITER LES INFECTIONS
   MICROBIENNES
PATENT ASSIGNEE:
 Montana State University, (4352824), 304 Montana Hall, Bozeman, MT 59717,
    (US), (Proprietor designated states: all)
  Ligocyte Pharmaceuticals, Inc., (2984800), 920 Technology Blvd., Suite C.
    , Bozeman, MT 59718, (US), (Proprietor designated states: all)
INVENTOR:
  PASCUAL, David, 8220 Indian Paint Brush Drive, Bozeman, MT 59178, (US)
  BURRITT, James, 1215 S. Bozeman, Bozeman, MT 59715, (US)
  BURGESS, Don, 5553 Black Bear, Bozeman, MT 59715, (US)
  GLEE, Pati, 813 W. Villard 75, Bozeman, MT 59718, (US)
  JUTILA, John, 516 S. Grand Avenue, Bozeman, MT 59715, (US)
  JUTILA, Mark, 3308 Sundance Drive, Bozeman, MT 59715, (US)
  BARGATZE, Robert, 1302 Wildflower Way, Bozeman, MT 59715, (US)
  PYLE, Barry, 4985 Foster Lane, Bozeman, MT 59175, (US)
  CUTLER, Jim, E., 1426 Ash Drive, Bozeman, MT 59715, (US)
  HAN, Yongmoon, 306 Treasure Avenue, Bozeman, MT 59715, (US)
LEGAL REPRESENTATIVE:
  Gervasi, Gemma, Dr. et al (40515), Notarbartolo & Gervasi S.p.A., Corso
    di Porta Vittoria, 9, 20122 Milano, (IT)
PATENT (CC, No, Kind, Date): EP 869801 A2 EP 869801 B1
                                             981014 (Basic)
                              WO 1997018790
                                            970529
                              EP 96942049 961121; WO 96US18796 961121
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 7477 P 951122
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
  MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: A61K-035/12
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
                                      1868
                           200404
      CLAIMS B
               (English)
                                      1706
      CLAIMS B
                 (German)
                           200404
                           200404
                                      2300
      CLAIMS B
                 (French)
      SPEC B
                (English)
                           200404
                                     20527
Total word count - document A
Total word count - document B
                                     26401
Total word count - documents A + B
                                     26401
               (Item 19 from file: 348)
 8/3, AB/28
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
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Searcher : Shears 571-272-2528

PURIFIED HEPATITIS C VIRUS ENVELOPE PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC

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15 July 1

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USE
                                                                         UND
                                                 ZUR
                                                       DIAGNOSTISCHEN
GEREINIGTE
              HEPATITIS-C-VIRUS
                                  HULLPROTEINE
    THERAPEUTISCHEN VERWENDUNG
PROTEINES PURIFIEES D'ENVELOPPE DE VIRUS DE L'HEPATITE C A USAGE DIAGNOSTIC
    ET THERAPEUTIQUE
PATENT ASSIGNEE:
  INNOGENETICS N.V., (713145), Industriepark Zwijnaarde 7, Box 4, 9052
    Ghent, (BE), (Proprietor designated states: all)
INVENTOR:
  MAERTENS, Geert, Zilversparrenstraat 64, B-8310 Brugge 3, (BE)
  BOSMAN, Fons, Hulst 165, B-1745 Opwijk, (BE)
  DE MARTYNOFF, Guy, Mattotstraat 71, B-1410 Waterloo, (BE)
  BUYSE, Marie-Ange, E. Ronsestraat 23, B-9820 Merelbeke, (BE)
LEGAL REPRESENTATIVE:
  De Clercq, Ann et al (87752), De Clercq, Brants & Partners cv., Edgard
    Gevaertdreef 10a, 9830 Sint-Martens-Latem, (BE)
PATENT (CC, No, Kind, Date): EP 721505 Al 960717 (Basic)
                              EP 721505 B1
                                            020508
                              WO 9604385 960215
                              EP 95930434 950731; WO 95EP3031
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): EP 94870132 940729
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
  NL; PT; SE
RELATED DIVISIONAL NUMBER(S) - PN (AN):
     (EP 2002003643)
INTERNATIONAL PATENT CLASS: C12N-015/40; C07K-014/18; C07K-016/10;
  C12Q-001/70; G01N-033/569
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
                                      1933
      CLAIMS B (English)
                          200219
                 (German)
                          200219
                                      1676
      CLAIMS B
                          200219
                                      2175
      CLAIMS B
                 (French)
      SPEC B
                (English) 200219
                                     20483
Total word count - document A
Total word count - document B
                                     26267
Total word count - documents A + B
                                     26267
               (Item 20 from file: 348)
 8/3, AB/29
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00656474
-g(a)-1,3-FUCOSYLTRANSFERASE.
-G(A)-1,3-FUCOSYLTRANSFERASE.
-g(a)-1,3-FUCOSYLTRANSFERASE.
PATENT ASSIGNEE:
  KYOWA HAKKO KOGYO CO., LTD., (229066), 6-1, Ohtemachi 1-chome, Chiyoda-ku
    Tokyo 100, (JP), (applicant designated states: DE;FR;GB;IT)
INVENTOR:
  SASAKI, Katsutoshi, 1171-3-201, Honmachida, Machida-shi, Tokyo 194, (JP)
  KURATA, Kazumi, 3-14-9, Mirokuji, Fujisawa-shi, Kanagawa 251, (JP)
  HANAI, Nobuo, 7-9-15, Ohnodai, Sagamihara-shi, Kanagawa 229, (JP)
```

NISHI, Tatsunari, 39-15, Higashimine-machi, Ohta-ku, Tokyo 145, (JP) LEGAL REPRESENTATIVE:

Kinzebach, Werner, Dr. et al (6468), Patentanwalte Reitstotter, Kinzebach und Partner Postfach 86 06 49, D-81633 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 643132 Al 950315 (Basic)

EP 643132 A1 990113 WO 9423021 941013

EP 94910547 940328; WO 94JP496 940328 APPLICATION (CC, No, Date):

PRIORITY (CC, No, Date): JP 9369016 930329

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: C12N-009/10;

ABSTRACT EP 643132 A1

A novel a-1,3-fucosyltransferase which is expressed by the gene cloned from animal cells; a cDNA coding for the transferase; a method of detecting a-1,3-fucosyltransferase using the cDNA and inhibiting the production of the transferase; a recombinant vector containing the cDNA integrated thereinto; a cell containing the vector; and processes for producing the above. The a-1,3-fucosyltransferase invented is useful for producing physiologically active sugar chains, such as sialylated Lewis X, and modifications thereof.

ABSTRACT WORD COUNT: 74

LANGUAGE (Publication, Procedural, Application): English; English; Japanese FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

> CLAIMS A (English) EPAB95

384

SPEC A (English) EPAB95

27443

Total word count - document A

27827

Total word count - document B

Total word count - documents A + B 27827

8/3, AB/30(Item 21 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00620345

IMMUNOINHIBITING PROPERTIES OF ANTI-INFLAMMATORY TOLEROGENIC AND CARBOHYDRATE BINDING-PEPTIDES

ENTZUNDUNGSHEMMENDE TOLEROGENE UND IMMUNOINHIBITORISCHE EIGENSCHAFTEN VON KARBOHYDRATE BINDENDE PEPTIDE

TOLEROGENES ET IMMUNO-INHIBITRICES PROPRIETES ANTI-INFLAMMATOIRES, PEPTIDES DE FIXATION D'HYDRATE DE GLUCIDE

PATENT ASSIGNEE:

ALBERTA RESEARCH COUNCIL, (1070134), 250 Karl Clark Road, Edmonton Alberta T6H 5X2, (CA), (Proprietor designated states: all)

INVENTOR:

HEERZE, Louis, D., 10, 10811 86 Avenue, Edmonton, Alberta T6E 2N1, (CA) ARMSTRONG, Glen, D., 7951 91 Avenue, Edmonton, Alberta T6C 1P9, (CA) SMITH, Richard, 1010 Buchanan Place, Edmonton, Alberta T6R 2A6, (CA) LEGAL REPRESENTATIVE:

Nash, David Allan et al (59251), Haseltine Lake & Co., Imperial House, 15-19 Kingsway, London WC2B 6UD, (GB)

PATENT (CC, No, Kind, Date): EP 666758 A1 EP 666758 B1 950816 (Basic)

```
WO 9407517 940414
                              EP 93921770 931004;
                                                  WO 93CA415 931004
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 956043 921002; US 995503 921221
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
  NL; PT; SE
INTERNATIONAL PATENT CLASS: A61K-038/02
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
      CLAIMS B (English) 200150
                                      1357
                          200150
                                      1226
      CLAIMS B
               (German)
                          200150
                                      1502
      CLAIMS B
                 (French)
                (English) 200150
                                     14409
      SPEC B
Total word count - document A
Total word count - document B
                                     18494
Total word count - documents A + B
                                     18494
               (Item 22 from file: 348)
 8/3, AB/31
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00609715
SELF-ASSEMBLING POLYNUCLEOTIDE DELIVERY SYSTEM COMPRISING AN AMPHIPHATIC
    CATIONIC PEPTIDE
                                                       VON POLYNUKLEOTIDEN
                                 ZUR
                                       VERABREICHUNG
SELBSTORGANISIERENDES
                        SYSTEM
    ENTHALTEND EIN AMPHIPHATISCHES PEPTID
SYSTEME DE LIVRAISON D'UN POLYNUCLEOTIDE A ASSEMBLAGE AUTONOME COMPRENANT
    UN PEPTIDE CATIONIQUE AMPHIPHATIQUE
PATENT ASSIGNEE:
  THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, (221072), 300 Lakeside
    Drive, 22nd Floor, Oakland, California 94612-3550, (US), (Proprietor
    designated states: all)
  SZOKA, Francis, C., Jr., 45 Mendosa Avenue, San Francisco, CA 94116, (US)
  HAENSLER, Jean, 1803 Judah Street, 2, San Francisco, CA 94112, (US)
LEGAL REPRESENTATIVE:
  Thiel, Christian, Dr. Dipl.-Chem. (57846), Schneiders & Behrendt Rechts-
    und Patentanwalte Postfach 10 23 65, 44723 Bochum, (DE)
PATENT (CC, No, Kind, Date): EP 636028 Al 950201 (Basic)
                              EP 636028 A1
                              EP 636028 B1
                              WO 1993019768 931014
                              EP 93909508 930405; WO 93US3406 930405
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 864876 920403; US 913669 920714
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
  NL; PT; SE
RELATED DIVISIONAL NUMBER(S) - PN (AN):
  EP 1236473 (EP 2002001408)
INTERNATIONAL PATENT CLASS: A61K-048/00; A61K-047/42; A61K-038/12
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
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Word Count
Available Text Language
                           Update
                (English)
                           200410
                                       625
      CLAIMS B
      CLAIMS B
                 (German)
                           200410
                                        644
                           200410
                                       733
      CLAIMS B
                 (French)
      SPEC B
                (English)
                           200410
                                     11192
Total word count - document A
Total word count - document B
                                     13194
Total word count - documents A + B
                                     13194
 8/3,AB/32
               (Item 23 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00531795
alpha 2-3 Sialyltransferase
Alpha-2-3-Sialyltransferase
Alpha 2-3 Sialyltransferase
PATENT ASSIGNEE:
  KYOWA HAKKO KOGYO CO., LTD., (229062), 6-1, Ohtemachi 1-chome,
    Chiyoda-ku, Tokyo-to, (JP), (applicant designated states: DE;FR;GB;IT)
  Sasaki, Katsutoshi, 3-6-6, Asahimachi, Machida-shi, Tokyo-to, (JP)
  Watanabe, Etsuyo, 1458-28, Okagami, Asao-ku, Kawasaki-shi, Kanagawa-ken,
    (JP)
  Nishi, Tatsunari, 3-9-13, Nakamachi, Machida-shi, Tokyo, (JP)
  Sekine, Susumu, 2-20-10, Higashifuchinobe, Sagamihara-shi, Kanagawa-ken,
  Hanai, Nobuo, 3-3-3, Fujimi, Sagamihara-shi, Kanagawa-ken, (JP)
  Hasegawa, Mamoru, 1-9-26, Katahira, Asao-ku, Kawasaki-shi, Kanagawa-ken,
    (JP)
LEGAL REPRESENTATIVE:
  VOSSIUS & PARTNER (100311), Postfach 86 07 67, 81634 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 552470 A1 930728 (Basic)
                              EP 552470 B1
APPLICATION (CC, No, Date):
                              EP 92121482 921217;
PRIORITY (CC, No, Date): JP 91333661 911217; JP 9291044 920410
DESIGNATED STATES: DE; FR; GB; IT
INTERNATIONAL PATENT CLASS: C12N-015/54; C12N-009/10; C12Q-001/68;
  C12P-021/00; C12N-001/21; C12N-001/21; C12R-001/19
ABSTRACT EP 552470 A1
    There are provided a novel a2->3 sialyltransferase expressed by a
  cloned gene from human cells, a cDNA encoding the a2->3
  sialyltransferase, a method for detecting or suppressing the expression
  of an a2->3 sialyltransferase by use of said cDNA, a recombinant vector
  containing said cDNA, a cell containing said vector, and their production
  processes.
ABSTRACT WORD COUNT: 55
LANGUAGE (Publication, Procedural, Application): English; English
FULLTEXT AVAILABILITY:
                           Update
                                     Word Count
Available Text Language
                           9811
                                        660
      CLAIMS B (English)
                                        634
                           9811
      CLAIMS B
                 (German)
                           9811
                                        768
      CLAIMS B
                 (French)
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(English) 9811
                                      21445
      SPEC B
Total word count - document A
                                          n
Total word count - document B
                                      23507
Total word count - documents A + B
                                     23507
               (Item 24 from file: 348)
 8/3, AB/33
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00429133
Method and formulation employing type II endoglycosidase
Verfahren und Formulierung unter Verwendung von Endoglycosidase vom Typ II
Methode et formulation employant l'endoglycosidase du type II
PATENT ASSIGNEE:
  THE PROCTER & GAMBLE COMPANY, (200173), One Procter & Gamble Plaza,
    Cincinnati, Ohio 45202, (US), (applicant designated states:
    AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE)
  GENENCOR INTERNATIONAL, INC., (1285780), 4 Cambridge Place, 1870 South
    Winston Road, Rochester, New York 14618, (US), (applicant designated
    states: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE)
  Carpenter, Richard Shepard, 10655 Gloria Ave., Cincinnati, Ohio 45231,
  Lad, Pushkaraj Jogannath, 814 N. Delaware St., Apt. 310, San Mateo, CA
    94401, (US)
  Goldstein, Irwin J., 3980 Loch Alpine Dr., Ann Arbor, MI 48103, (US)
  Wolff, Ann Margaret, 4570 Boomer Road, Cincinnati, Ohio 45247, (US)
LEGAL REPRESENTATIVE:
  Canonici, Jean-Jacques et al (57861), Procter & Gamble European Technical
    Center N.V. Temselaan 100, 1853 Strombeek-Bever, (BE)
PATENT (CC, No, Kind, Date): EP 425018 A2 910502 (Basic)
                              EP 425018 A3 911002
                              EP 425018 B1 961211
APPLICATION (CC, No, Date):
                              EP 90202750 901016;
PRIORITY (CC, No, Date): US 428361 891027
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: C11D-003/386; C11D-003/00; A61K-007/48;
ABSTRACT EP 425018 A2
    Methods and formulations for removing glycoside-containing substances
  from surfaces by treatment with Type II endoglycosidase alone or in
  combination with other enzymes and/or detergents.
ABSTRACT WORD COUNT: 28
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                           Update
                                     Word Count
Available Text Language
                                        950
      CLAIMS A (English) EPABF1
                                        982
      CLAIMS B (English)
                           EPAB96
      CLAIMS B
                (German)
                           EPAB96
                                        972
      CLAIMS B
                 (French)
                           EPAB96
                                       1109
                          EPABF1
                (English)
                                      18610
      SPEC A
                (English) EPAB96
                                     18501
      SPEC B
Total word count - document A
                                      19562
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Searcher: Shears 571-272-2528

21564

Total word count - document B

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Total word count - documents A + B 41126
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8/3,AB/34 (Item 25 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00429132

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12 Y ...

Method employing type II endoglycosidase Verfahren unter Verwendung von Endoglycosidase vom Typ II Methode employant l'endoglycosidase du type II PATENT ASSIGNEE:

THE PROCTER & GAMBLE COMPANY, (200173), One Procter & Gamble Plaza, Cincinnati, Ohio 45202, (US), (applicant designated states: BE; DE; DK; FR; GB; IT; NL)

GENENCOR INTERNATIONAL, INC., (1285784), 4 Cambridge Place, 1870 South Winton Road, Rochester, New York 14618, (US), (applicant designated states: BE; DE; DK; FR; GB; IT; NL)

INVENTOR:

Carpenter, Richard Shepard, 10655 Gloria Ave., Cincinnati, Ohio 45231, (US)

Wolff, Ann Margaret, 4570 Boomer Road, Cincinnati, Ohio 45247, (US) Lad, Pushkaraj Jogannath, 814 N. Delaware St., Apt. 310, San Mateo, CA 94401, (US)

LEGAL REPRESENTATIVE:

Canonici, Jean-Jacques et al (57861), Procter & Gamble European Technical Center N.V. Temselaan 100, B-1853 Strombeek-Bever, (BE)

PATENT (CC, No, Kind, Date): EP 425017 A2 910502 (Basic)

EP 425017 A3 911002 EP 425017 B1 951220

APPLICATION (CC, No, Date): EP 90202749 901016; PRIORITY (CC, No, Date): US 428248 891027 DESIGNATED STATES: BE; DE; DK; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: C11D-003/386; C11D-003/00; A61K-007/48;

ABSTRACT EP 425017 A2

Methods for removing microorganisms, such as bacteria, from surfaces by treatment with Type II endoglycosidase alone or in combination with other enzymes and/or detergents.

ABSTRACT WORD COUNT: 28

LANGUAGE (Publication, Procedural, Application): English; English; English; FULLTEXT AVAILABILITY:

`	
CLAIMS A (English) EPABF1 271	
CLAIMS B (English) EPAB95 262	
CLAIMS B (German) EPAB95 270	
CLAIMS B (French) EPAB95 291	
SPEC A (English) EPABF1 18293	
SPEC B (English) EPAB95 18067	
Total word count - document A 18566	
Total word count - document B 18890	
Total word count - documents A + B 37456	

8/3,AB/35 (Item 26 from file: 348)

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DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00429131
Antimicrobial method and formulation employing type II endoglycosidase and
    antimicrobial agent
                  Verfahren
                               und
                                     Formulierung
Antimikrobielles
    Endoglycosidase vom Typ II und antimikrobielles Mittel
Methode antimicrobienne et formulation employant l'endoglycosidase du type
    II et agent antimicrobien
PATENT ASSIGNEE:
  THE PROCTER & GAMBLE COMPANY, (200173), One Procter & Gamble Plaza,
    Cincinnati, Ohio 45202, (US), (applicant designated states:
    BE; DE; DK; FR; GB; IT; NL)
  GENENCOR INTERNATIONAL, INC., (1285784), 4 Cambridge Place, 1870 South
    Winton Road, Rochester, New York 14618, (US), (applicant designated
    states: BE;DE;DK;FR;GB;IT;NL)
INVENTOR:
  Carpenter, Richard Shepard, 10655 Gloria Ave., Cincinnati, Ohio 45231,
  Wolff, Ann Margaret, 4570 Boomer Road, Cincinnati, Ohio 45247, (US)
  Lad, Pushkaraj Jogannath, 203 Falguni Ashoknagar, Kandivali (E) Bombay
    400101, (IN)
LEGAL REPRESENTATIVE:
  Canonici, Jean-Jacques et al (57861), Procter & Gamble European Technical
    Center N.V. Temselaan 100, B-1853 Strombeek-Bever, (BE)
PATENT (CC, No, Kind, Date): EP 425016 A2
                                             910502 (Basic)
                              EP 425016 A3
                                             911002
                              EP 425016 B1
                                             951220
                              EP 90202748 901016;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 428362 891027
DESIGNATED STATES: BE; DE; DK; FR; GB; IT; NL
INTERNATIONAL PATENT CLASS: C11D-003/386; C11D-003/00; A61K-007/48;
ABSTRACT EP 425016 A2
    Antimicrobial methods and antimicrobial compositions utilizing Type II
  endoglycosidase alone or in combination with an antimicrobial agent.
ABSTRACT WORD COUNT: 21
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
      CLAIMS A (English)
                                       922
                           EPABF1
                                        895
                           EPAB95
      CLAIMS B
                (English)
                                        869
      CLAIMS B
                 (German)
                           EPAB95
      CLAIMS B
                 (French)
                           EPAB95
                                       1086
                (English)
                           EPABF1
                                      18337
      SPEC A
                          EPAB95
                                      18116
      SPEC B
                (English)
                                      19261
Total word count - document A
                                     20966
Total word count - document B
Total word count - documents A + B
                                      40227
                (Item 27 from file: 348)
 8/3, AB/36
DIALOG(R) File 348: EUROPEAN PATENTS
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Shears

571-272-2528

(c) 2004 European Patent Office. All rts. reserv.

Searcher :

والمراجع

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00337669
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ريرات فالاحت

المراجع والمعتار

Derivatives of soluble T-4.

Losliche T-4 Derivate.

Derives de T-4 solubles.

PATENT ASSIGNEE:

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, (477541), West 116th Street and Broadway, New York New York 10027, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE) SMITHKLINE BECKMAN CORPORATION, (201240), P.O. Box 7929 1 Franklin Plaza, Philadelphia Pennsylvania 19101, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

Maddon, Paul J., 60 Haven Ave., New York, New York 10032, (US)
Axel, Richard, 445 Riverside Drive, New York, New York 10027, (US)
Sweet, Raymond W., 108 Edgehill Road, Bala Cynwyd, Pennsylvania 19004,
(US)

Arthos, James, 2026 Hill Street, Ann Arbor, Michigan 48104, (US) LEGAL REPRESENTATIVE:

Lawrence, John et al (60371), Barker, Brettell & Duncan 138 Hagley Road Edgbaston, Birmingham B16 9PW, (GB)

PATENT (CC, No, Kind, Date): EP 330227 A2 890830 (Basic)

EP 330227 A3 910130 EP 89103297 890224;

APPLICATION (CC, No, Date): EP 89103297 PRIORITY (CC, No, Date): US 160348 880224

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE INTERNATIONAL PATENT CLASS: A61K-037/02; C12N-015/13; C12N-015/00; C12P-021/02;

ABSTRACT EP 330227 A2

This invention provides a therapeutic agent capable of specifically forming a complex with human immunodeficiency virus envelope glycoprotein which comprises a polypeptide. In one embodiment of the invention, the amino acid sequence of the polypeptide comprises the amino acid sequence shown in Figure 6 from about +3 to about +185 fused to the amino acid sequence from about +351 to about +369. In another embodiment of the invention, the amino acid sequence of the polypeptide comprises the amino acid sequence shown in Figure 6 from about +3 to about +106 fused to the amino acid sequence from about +351 to about +369. In yet a further embodiment of the invention, the amino acid sequence of the polypeptide comprises the amino acid sequence shown in Figure 6 from about +3 to about +185.

This invention also provides a method for treating a subject infected with a human immunodeficiency virus. The method comprises administering to the subject an effective amount of a pharmaceutical composition comprising an effective amount of a therapeutic agent of the invention and a pharmaceutically acceptable carrier.

ABSTRACT WORD COUNT: 182

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Total word count - document B 0

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Sec. 20

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               (Item 28 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
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00282147
DNA ENCODING THE T CELL SURFACE PROTEIN T4 AND USE OF FRAGMENTS OF T4 IN
    THE TREATMENT OF AIDS
FUR DAS T-ZELL OBERFLACHENPROTEIN T4 KODIERENDE DNA UND VERWENDUNG VON
    T4-FRAGMENTEN BEI DER BEHANDLUNG VON AIDS
ADN DE CODAGE DE LA PROTEINE T4 DE LA SURFACE DES CELLULES T ET UTILISATION
    DE FRAGMENTS DE T4 POUR LE TRAITEMENT DU SIDA
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PATENT (CC, No, Kind, Date): EP 280710 A1 880907 (Basic)
                              EP 280710 A1
                              EP 280710 B1 960320
                              WO 8801304 880225
                              EP 87905848 870820; WO 87US2050 870820
APPLICATION (CC, No, Date):
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INTERNATIONAL PATENT CLASS: C12Q-001/68; C07H-021/00;
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LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                     Word Count
      CLAIMS B (English) EPAB96
                                      2277
      CLAIMS B
                 (German) EPAB96
                                      1956
                                      2707
      CLAIMS B
                 (French) EPAB96
               (English) EPAB96
                                     18070
      SPEC B
Total word count - document A
Total word count - document B
                                     25010
Total word count - documents A + B
                                     25010
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8/3,AB/38 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
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0301645 DBR Accession No.: 2003-03430 PATENT
New mutant cell for propagating influenza virus with decreased

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sialidase activity useful as vaccine, comprises decreased levels of sialic acid containing host cell receptors for influenza virus - packaging cell culture for influenza A virus and influenza B virus infection recombinant vaccine, nucleic acid vaccine and gene therapy AUTHOR: KAWAOKA Y PATENT ASSIGNEE: WISCONSIN ALUMNI RES FOUND; KAWAOKA Y 2002 PATENT NUMBER: WO 200268632 PATENT DATE: 20020906 WPI ACCESSION NO.: 2002-706991 (200276) PRIORITY APPLIC. NO.: US 271044 APPLIC. DATE: 20010223 NATIONAL APPLIC. NO.: WO 2002US5455 APPLIC. DATE: 20020222 LANGUAGE: English ABSTRACT: DERWENT ABSTRACT: NOVELTY - An isolated mutant cell (I) comprising decreased levels of sialic acid containing host receptors for influenza virus relative to a corresponding wild-type cell which supports efficient influenza virus replication, is new. DETAILED DESCRIPTION -INDEPENDENT CLAIMS are also included for the following: (1) isolating a cell that has decreased levels of receptors for influenza virus, comprising: (a) contacting a population of cells permissive for influenza virus replication and sensitive to lectin or agglutinin growth inhibition with an amount of lectin or agglutinin to yield cells that are resistant to growth inhibition by the lectin or agglutinin that specifically binds sialic acid; and (b) isolating a lectin- or agglutinin-resistant cell having decreased levels of receptors for influenza virus; (2) a lectin- or agglutinin-resistant cell isolated by method (1); (3) propagating influenza viruses having reduced sialidase activity by contacting (I) and the lectin- or agglutinin-resistant cell with an amount of an influenza virus having reduced sialidase activity to yield progeny virus; (4) a progeny virus obtained by method (3); (5) using a host cell having decreased levels of sialic acid containing host cell receptors for influenza virus, comprising: contacting (I) and the lectin- or agglutinin-resistant cell with an amount of an influenza virus having wild -type levels of sialidase activity to yield progeny virus; and serially propagating the progeny virus with (I) and lectin - or agglutinin-resistant cell to yield adapted viruses replicate in the mutant cell and the efficiently lectin - or agglutinin-resistant cell; and (6) isolated adapted virus obtained by method (5), which does not have a mutation in the hemagglutinin (HA) gene relative to the virus having substantially wild-type levels of sialidase activity. WIDER DISCLOSURE - Eliciting an immune response to an influenza virus, which may be prophylactic or therapeutic for an influenza virus infection. BIOTECHNOLOGY -Preferred Cell: The mutant cell is a mammalian cell, swine, bovine, simian or canine particularly cell. Alternatively, the mutant cell is a mink lung cell, or an avian cell. The wild-type cell is MDCK cell. The mutant cell has decreased levels of N-acetylneuraminic acid and/or N-glycolylneuraminic acid, particularly at least 10-fold lower levels of N-acetylneuraminic acid and at least 2-fold lower levels of N-glycolylneuraminic acid relative to the corresponding wild-type cell. The lectin-resistant cell is resistant to growth inhibition by Maakia amurensis or Sambucus nigra

lectin . Preferred Method: In isolating a cell that has decreased levels of receptors for influenza virus, the lectin is
Maakia amurensis, Sambucus nigra or Tritrichomonas mobilensis
lectin. The agglutinin is Limax flavus agglutinin. The lectin specifically binds sialic acid linked to galactose by alpha(2-3) or alpha(2-6) linkages, or to N-acetylgalactosamine by alpha(2-6) linkages. The method of using a host cell having decreased levels of sialic acid containing host cell receptors for influenza virus, further comprises isolating the adapted virus. In method (3) or (5), the influenza virus is particularly type A or B influenza virus. ACTIVITY - Virucide; Immunomodulator. No biological data is given. MECHANISM OF ACTION - Vaccine; Gene therapy. USE - The mutant cell is useful in propagating influenza virus having reduced or decreased sialidase activity. The obtained may be employed in vaccines, in preparing monoclonal or polyclonal antibodies specific for those viruses, in preparing recombinant or reassortant viruses, or for gene delivery including the delivery of immunogenic non-influenza virus proteins or peptide for vaccines or therapeutic proteins. ADMINISTRATION - The dosage of attenuated virus may range from 103-107 plaque-forming units (PFU)/kg. The inactivated vaccine can be given at a dose of 0.1-200 microg HA protein. Administration is by subcutaneous, intravenous, intradermal, intramuscular, intraperitoneal, intranasal, oral or transdermal routes. EXAMPLE - No relevant examples given. (33 pages)

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